Panasonic
ideas for life

2007

DVD HOME THEATRE SYSTEMS

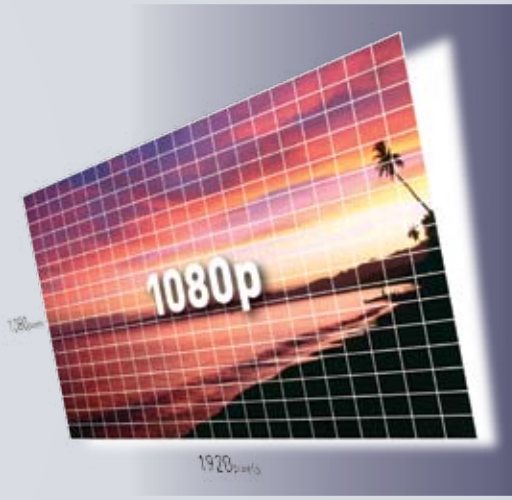
>HIGH DEFINITION HOME THEATRE SYSTEMS
>BLU-RAY DISC PLAYER
>DVD RECORDERS
>DVD PLAYERS
>COMPONENT HOME THEATRE - RECEIVERS & SPEAKERS
>DVD MINI SYSTEMS

DIGITAL NETWORKING

DVD™

For the 1080p High-Definition Era, Panasonic Home Theatres Deliver the Ultimate Movie Experience

High definition is taking off. It's becoming clear to more and more people that if you want to enjoy true home theatre, a high-resolution HDTV is the only way to go. But it's important to know that not all home theatre systems are compatible with HDTV. Consider how an HDTV displays images from DVD movies. Most DVDs are recorded in standard definition, this means that HDTVs tend to enlarge the DVD images, sometimes causing them to appear coarse or blurry. That's not the case with Panasonic home theatre systems. Images always appear clear and sharp because Panasonic systems up-convert the DVD images for optimal viewing on an HDTV. This advanced performance is made possible by a comprehensive range of Panasonic technologies, and because we produce every key device and component in our HDTVs and home theatre systems ourselves, their quality and performance are simply amazing. They also offer a wide range of functions, like VIERA Link for easy, interlinked operation of other components and quick and easy linking with portable audio equipment. There's a new world of 1080p HD images out there, and a new lineup of Panasonic home theatre systems. That's a match that delivers the ultimate home entertainment experience.



1080p Up-Conversion

1080p Up-Conversion

DVD media can be up-converted for viewing with HD-like image quality. Imagine — now you can enjoy your DVDs with HD-level performance on a large screen in remarkably high resolution. Sit back and let the lifelike images and dynamic sound bring all the excitement of a movie theatre right into your home.

VIERA Link

VIERA Link

Panasonic further developed the world-leading interoperability of the HDMI standards, and created VIERA Link for easy linked operation. VIERA Link lets you operate a variety of AV devices using only the remote control of your flat TV VIERA.

USB

music port for Digital Audio Players

Entertainment

Panasonic DVD home theatre systems are great for watching movies, but that's only where the fun begins. They also come equipped to deliver exceptional sound quality from portable audio players.

INDEX

The Home Theatre Connection

VIERA Link Compatible Panasonic TV Line-up

Plasma TV

TH-58PZ700A

TH-50PZ700A
TH-42PZ700A

TH-50PX700A

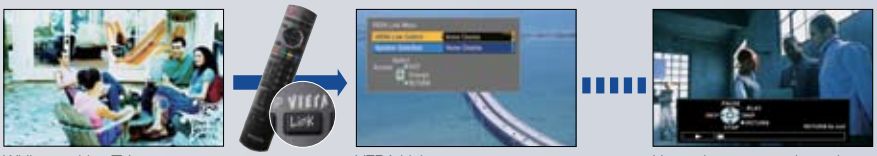
TH-50PX70A/TH-42PX70A

TH-42PX70A

TH-42PX7A

You Can Control Your Home Theatre with the VIERA Remote Control* (Seamless GUI)

When the TV is on, the VIERA Link function lets you switch to home theatre mode using just the VIERA remote control unit. Simply press the VIERA Link button on the VIERA remote control and select "Home Cinema" on the VIERA Link Menu screen. The home theatre system's menu will display on the TV screen, and you can begin playback of a DVD disc or select from the DVD disc menu.



While watching TV | VIERA Link button | VERA Link menu | Home theatre control panel

One-Touch Home Theatre Playback with VIERA Remote*

Just press the "Play" button of the VIERA remote control and let Panasonic do the rest. All components turn on, the correct VIERA input is selected, the TV built-in speaker sound is muted, and the home theatre starts playback. It all happens automatically and in an instant.

* This function is available for selected 2007 home theatre systems used with 2007 flat-panel TV models.

Yet More Convenient Operations

One-Touch Speaker Switching

If you call up the VIERA Link on-screen display and select "Home Cinema," the home theatre turns on and audio playback switches from the TV speakers to the home theatre speakers. If you turn off the home theater, the audio automatically switches back to the TV speakers.

One-Touch Volume Control

When the audio is being output from the home theatre, you can adjust the sound volume right on the VIERA remote control. As you operate the sound volume up or down, the home theatre's sound volume is automatically turned up or down accordingly.

LCD TV

TX-32LXD700A

TX-32LXD70A
TX-26LXD70A

What's HDMI

The New Interface for Digital Signal Transmission

HDMI transmits digital video and audio signals at speeds up to 5 Gbps without compressing them. It supports high definition images up to 1080p and high-quality, multi-channel audio formats. And it provides all this performance with the ease of connecting a single cable. HDMI is a simple, high-performance interface that supports the growing digital age.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Home Theatre | VIERA

Panasonic HDMI Cables

1.5m RP-CDHG15

3m RP-CDHG30

5m RP-CDHG50

7m RP-CDHG70

10m RP-CDHG100

High Definition 1080p Theatre

The Panasonic TH-65PV600A 65-inch plasma display panel displays 1080p images (1920 x 1080 pixels) from the signals it receives, without downscaling. The DMP-BD10A accurately reproduces the high-resolution images and high-quality sound recorded on Blu-ray discs. The SA-XR700-K home theatre receiver delivers powerful 7.1 channel audio from the huge amount of data it receives. The SB-TP1000 home theatre speaker system featuring the Panasonic original Twin Centre speaker system, delivers both clear, crisp dialogue that seems to come right from the screen and an outstanding life like surround effect. And it's all easy to enjoy thanks to Viera Link, which lets you operate all connected components at once by pressing a single button on the remote control. A perfect balance of beautiful pictures, stunning sound and easy operation. Panasonic puts together everything you need for the ultimate home theatre experience.

65-inch Diagonal HD Plasma
TH-65PV600A

Blu-ray Disc™ Player
DMP-BD10A

Home Theatre Receiver
SA-XR700-K

Home Theatre Speaker System
SB-TP1000

TH-65PV600A

The display panel offers outstanding 1920 x 1080p resolution. Both the processor and driver support HD 1080p images. The TH-65PV600A brings out the best from every HD source, giving you crisp, vivid still pictures and smooth, sharp motion images, plus the grandeur only a 65-inch screen can provide.

Full High-Definition Makes Images Look So Real, You Want to Reach Out and Touch Them

Panasonic's Acclaimed High-Image-Quality Technologies

VIERA Black Box Technology

Viera Black Box is the collective name for original technologies developed by Panasonic to enhance total image quality. From input to display, VIERA uses all-digital video signal processing to create crisp, vivid, smooth images with true, rich blacks - images that are both visually appealing and capable of delivering tremendous emotional impact. Panasonic's commitment to achieving the ultimate in picture quality is reflected in the fact that all key devices in VIERA - from processor to driver to panel - are produced totally in-house.

VIERA PROCESSOR
This key device processes the video signal it receives, outputting an extremely high-quality signal that helps create the beautiful, high-definition images that distinguish VIERA.

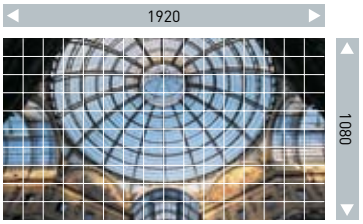
VIERA DRIVER
This high-performance driver helps optimise the performance of the panel, allowing it to display breathtaking images with crisp detail, smooth motion and finely nuanced gradation.

VIERA FULL HD PANEL
The Viera full HD panel clearly and vividly displays the video signal after it is processed by the Viera processor and driver. It produces deep, rich blacks and sharp, beautiful images with vivid colours even when viewing in bright light.

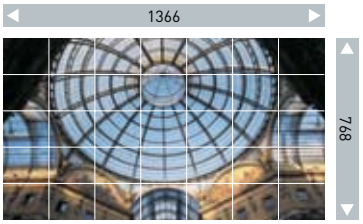
1080p resolution for lifelike images and more detail

Full HD Plasma Panel

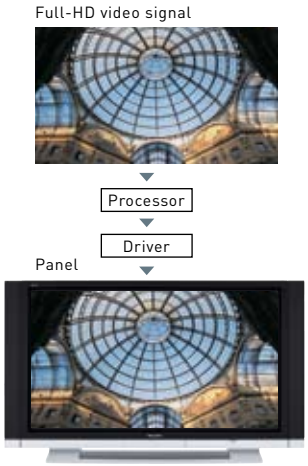
The TH-65PV600A features a 65"-type full HD plasma panel with 1920 (horizontal) x 1080 (vertical) pixels. Panasonic's microcell discharge stabilisation technology and newly developed high-speed driver technology make it possible to reproduce HDTV broadcasts (1920 x 1080) in their full original resolution. With a Panasonic full HD plasma panel, you enjoy smoother images and greater detail than any conventional HD panel can offer.



TH-65PV600A Full HD Panel 2.07 million pixels (approx.)



Conventional 50-inch HD Panel 1.05 million pixels (approx.)



Full HD direct processing of the HD signals (1920 x 1080) from input to output

Maintaining the highest data quality from input all the way to output

Full HD Digital Processing

The full-HD video signal allows the reproduction of highly expressive images with exceptional detail and full 1920 x 1080 resolution. It helps maximise performance of the full HD plasma panel, so you enjoy clear, vibrant, beautiful pictures with extraordinary detail.

DMP-BD10A

1. High Definition Player: 1080p Playback Capability with P4HD (Pixel Precision Progressive Processing for HD)
2. High Quality Sound: Dynamic Range of 118dB and High-Precision 192kHz/ 24bit Audio DAC/Built-in Dolby Digital Plus, Dolby TrueHD and DTS-HD High Resolution Audio Decoder
3. Intelligent Control: VIERA Link

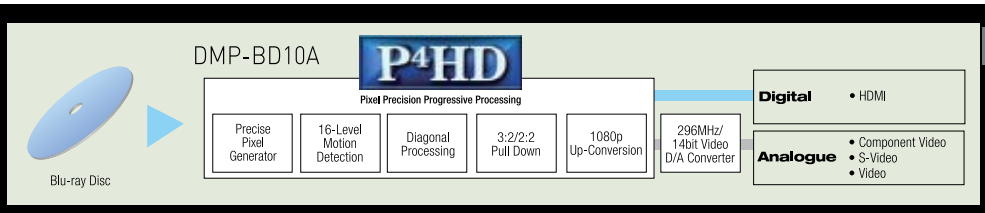
Video Features
- P4HD (Pixel Precision Progressive Processing for HD)
- Precise Pixel Generation
- 16-Level Motion Detection with Pixel-Based Motion Adaptive
- Diagonal Processing
- Detection of 3:2/2:2* Pull-Down Progressive Processing
- i/p Conversion for 1080p DVD Only[5] Playback
- Up-conversion to 1080p[5] Playback
- 297MHz/ 14bit Video D/A Converter
- Progressive Scan
- Digital Noise Reduction (DNR/ 3D-NR/ Integrated DNR)
- Picture Mode (Normal, Soft, Fine, Cinema, User)
- Picture Adjustment (Brightness, Colour, Contrast, Sharpness, Gamma Correction)

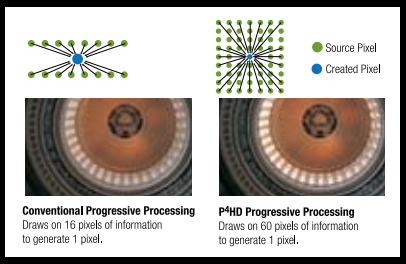
Audio Features
- Dynamic Range of 118dB
- 192kHz/ 24bit Audio D/A Converter
- Audio Re-Master
- Virtual Battery Operation
- Built-in Dolby Digital Plus, Dolby TrueHD and DTS-HD High Resolution Audio Decoder
- Advanced Surround (V.S.S.) Creates a Surround Effect for DVD from Only Two Speakers (2 Modes)
- Dialogue Enhancer
- Dynamic Range Compression

Output
- 1 HDMI Terminal
- SCART Terminal (RGB Output)
- Component Video Out
- S-Video Out
- Video Out
- 7.1ch Audio Out
- 2ch Audio Out x2
- 2 Digital Audio Output (1 Optical, 1 Coaxial)

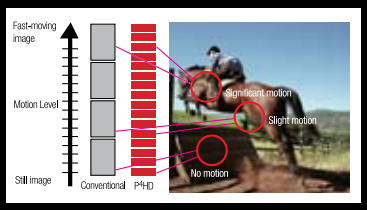
Convenient Features
- VIERA Link
- Multi-Format Playback (BD-Video, DVD-Audio, DVD-Video, DVD-RAM, AVCHD, DVD-RW[1], DVD-R[1], DVD-R (Dual Layer)[1], +R[1], +R (Double Layer)[1], +RW[1], SVCD[3], Video CD, CD, CD-R/RW[2], MP3[4], JPEG)
- Super Hi-Speed Scan: 5 Speeds up to x200
- Easy Setting Guide
- Graphical User Interface
- Audio/ JPEG Navigation Menu
- Triple Laser Pickup for BD/DVD/CD Playback

1 Discs recorded and finalised on DVD video recorders/cameras. 2 Playability may vary depending on the content, discs and quality of the recording. 3 Disc that cannot be played "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107. 4 For content recorded on CD-R/RW for your personal use only. 5 HDMI connection required.
Dolby and the double-D symbol are registered trademarks of Dolby Laboratories. "DTS" is a trademarks of Digital Theater Systems, Inc.



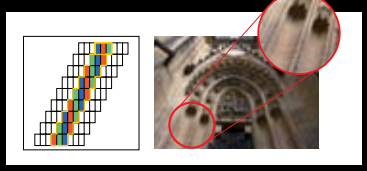


Precise Pixel Generator BD-Video supports a number of formats. For example, the highest-quality format (1920 x 1080 pixels) can be encoded at any of four different frame rates - 59.94i, 50i, 23.976p and 24p – and the compression format can be MPEG2, MPEG4 AVC or VC-1. The BD-Video player must detect these instantly and perform progressive conversion when necessary. Both for the de-interlacing and scaling, the DMP-BD10A's super-high-speed P4HD generates each pixel correctly according to information obtained from up to 60 surrounding pixels. Applying progressive processing to huge amounts of data, it delivers images of striking beauty.



16-Level Motion Detection with Pixel-Based Motion Adaptive For optimum progressive conversion, the processing must suit the motion of the image. The super-high-speed P4HD categorises the image motion of each pixel into one of 16 levels, from stationary to super fast. For areas with stationary images, it applies the progressive processing best suited to still images. In other areas it applies processing that matches the degree of motion. The results are stunningly beautiful progressive images with minimum conversion errors.

Diagonal Processing The ability to create smooth, sharp diagonal lines is a key in progressive conversion. The P4HD quickly detects diagonals and applies correction to the pixels accordingly. In reproducing the kinds of geometric patterns often seen in architecture, for example, the DMP-BD10A provides exceptionally smooth, sharp diagonal lines whether the image is still or moving.



3:2/2:2 Pull-Down Progressive Processing The P4HD instantly determines whether a source is film or video and optimises the processing accordingly. Applying 3:2 or 2:2 pull-down with movie software, it makes images look natural and true to life.

1080p Up-Conversion for All Discs* The DMP-BD10A enhances the viewing experience from a variety of sources. When playing a BD-Video or DVD disc, it up-converts content recorded in the 480i/p, 576i/p, 720p or 1080i format to 1080p with high precision. You enjoy superb 1080p-level image quality.

*With HDMI Connection

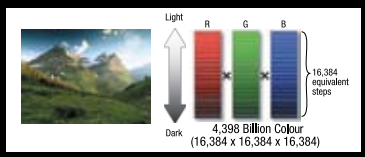
Precise Digital Video

P4HD (Pixel Precision Progressive Processing for HD) To get the best HD images from a BD-Video disc, you need a player that renders high-quality progressive images, expresses motion smoothly, and draws sharp diagonal lines. The DMP-BD10A's P4HD processes more than 15 billion pixels per second and applies the optimum processing to every pixel in the video data on the disc. The result is images with exceptional resolution.

P4HD
Pixel Precision Progressive Processing

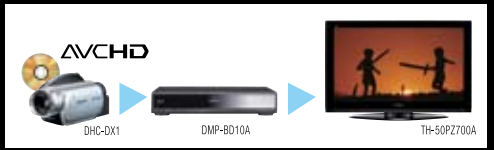
Natural Analogue Video

296MHz/14bit Video D/A Converter DMP-BD10A incorporates a 296MHz, 14bit Video D/A Converter from Analog Devices Co. Ltd. that provides high-quality 4x oversampling for 1080i/720p output. NSV (noise shaping video) processing shifts the noise component to an unused band to further boost the signal-to-noise ratio. And finally, we added extremely fine 14bit signal processing that renders ultra-fine images with smooth gradation. Thanks to technologies like these, the DMP-BD10A can theoretically reproduce up to nearly 4400 billion colours.



AVCHD Playback Capable

DMP-BD10A is capable of playing back video content recorded on AVCHD format with a HD Video Camera. Simply take the DVD disc from the HD Video Camera and insert it in the DMP-BD10A. You can enjoy your precious memories with outstanding HD-quality images.



"DTS" is a registered trademark of DTS, Inc. and "DTS-HD High Resolution Audio" is trademark of DTS, Inc. *The DMP-BD10's firmware can be updated to allow playback of AVCHD format.

SA-XR700-K

1. Super High-Quality Sound with Full-Digital Amplifier & Advanced Dual Amp Drive/ Triple Amp Drive
2. HDMI for High Definition 1080p Transmission
3. VIERA Link gives you streamlined control of Panasonic Plasma TV, BD Player and DVD Recorder

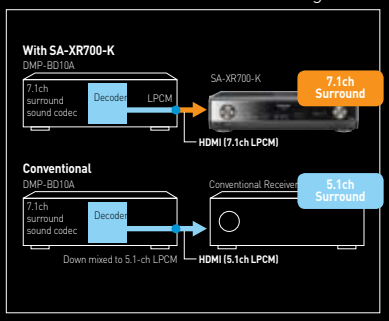
100W x 7
Home Theatre Mode

- Home Theatre Mode: provides equal high power output of 100W/ch – 7ch (1kHz, 6 ohms, 1% THD) to Left/ Centre/ Right/ Left Surround/ Right Surround/ Left Surround Back/ Right Surround Back
- Powerful Stereo Mode: 145W/ch (DIN) – 2ch
- 192kHz/ 24-bit Audio A/D Converter for Analogue Input
- DVD-Audio Ready for high quality sound (88kHz Reproduction, S/N 103dB)
- Dolby Pro Logic IIx and Dolby Digital EX, DTS 96/24 Decoder and DTS-ES, DTS-NEO:6 Decoder
- Sound Field Control (Music: Live, Pop/Rock, Vocal, Jazz, Dance, Party Movie: Drama, Action, Sports, Musical, Game)
- Bi-Amp Operation Mode with HF/LF Balance and Digital Linear Phase Adjustment
- Independent Simple Subwoofer Level Control
- Auto Speaker Setup for Quick and Easy Speaker Setting
- Auto Speaker Detector
- Status Message Display
- Speaker Configuration Settings for each channel: Large, Small, None (Except L/R Channels)
- A and/ or B Speaker Selector
- Multi-Control Jog
- HDMI Terminals (2-In, 1-Out)
- 6ch Discrete Inputs for connection to DVD Player or BD Player with built-in decoder
- 4 Digital Inputs (2 Optical, (2 Coaxial: 192kHz Compatible with DVD)]
- Front Audio/ Video Input
- Large Speaker Terminals for All Channels
- Subwoofer Output for extended bass reproduction
- Gold Plated Terminals to Preserve Signal Quality
- 3 Component Video Terminals (2-In, 1-Out)
- 5 S-Video Terminals (4-In, 1-Out)
- RDS
- Quartz-Synthesised Digital Tuning System
- 10-Key Direct Tuning (Via Remote Control)
- Universal Remote Control commands most current TVs, VCRs, DVD Recorders and DVD Players

HDMI Solution for HD Entertainment

8ch Linear PCM Input through HDMI

The DMP-BD10-A decodes the 7.1-channel surround sound signals of Dolby Digital Plus converts them to linear PCM, and outputs them through an HDMI terminal. The SA-XR700-K receives these signals through its HDMI terminal and digitally amplifies them to produce a dynamic 7.1-channel surround sound. Only HDMI-compatible products can unlock the full digital surround sound potential made possible by the huge amount of audio data on a Blu-ray disc.



Full HD 1080p Video Transmission

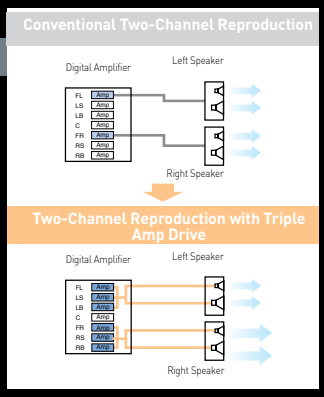
The SA-XR700-K has both HDMI input and output terminals. It can receive signals from a source connected via HDMI cable and output them via HDMI cable to a TV. Since the SA-XR700-K supports video sources with resolution up to 1080p, it can receive full-HD video signals from a Blu-ray Disc player and send them in original form to a TV for degradation-free display.

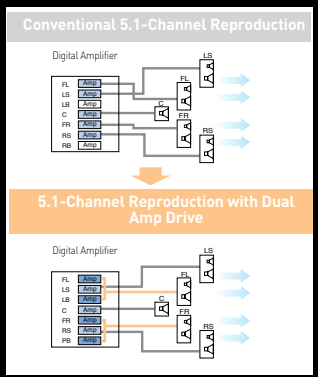
Digital Amp Multi Drive Technology

Dual Amp

Triple Amp Drive

When the home theatre system is playing a two-channel audio source from a DVD-Audio or CD using only the front two speakers, the SA-XR700-K will automatically drive each of the two channels using three amps, with no need to re-connect the speaker cables. This lets you enjoy a crisper bass, richer acoustic presence, and expansive instrumentals and vocals. Bi-wiring speaker connection also reproduces a higher-quality sound with better high-range and low-range frequency characteristics.





5.1ch with Dual Amp Drive (Advanced Dual Amp)

With the SA-XR700-K's Dual Amp Drive system, two amps are automatically used to drive each of the two front channels when a 5.1-channel source is being played, with no need to re-connect the speaker cables. This enhances realism and ambience in movie soundtracks by delivering high-quality sound from the left and right front channels, which play such an important role in reproducing movie sound effects and background music.

SB-TP1000

DVD Audio Ready

1. Panasonic Original Twin Centre Speaker reproduces the dialogue from the screen regardless of the listening position
2. High-quality sound design to enhance the home theatre sound enjoyment (PP Mica Graphite Woofer, Titanium Dome Tweeter, Super Sonic Tweeter, Dual Drive Subwoofer)
3. Solid & non-resonance Aluminium Cabinet

Common Features:
- High Performance Network Design with High Sound Quality Capacitors and OFC (Oxygen Free Copper) Internal Wiring (Front, Centre & Surround)
- Round Form Design Improves Rigidity of the Cabinet & Decreases Internal Standing Waves (Front, Centre & Surround)
- Resonance-Reducing Aluminum Monocoque Cabinet for Optimum Rigidity (Front, Centre & Surround)
- Gold-Plated Large Speaker Terminals Help Preserve Sound Quality (Front, Centre & Surround)
- Anti-Vibration Mounting Method Reduces Unwanted Cabinet Resonance (Front, Centre & Surround)
- Wall-Mountable Design (Front, Centre & Surround)

Front/Centre Speakers:
- Independent Front/ Centre Internal Structure to Prevent Mutual Interference and Reduce Cabinet Resonance

Front Speaker Section
- 3-Way, 4-Speaker System
- DVD-Audio Ready, Wide Frequency Range up to 100kHz (-16dB) with Super Sonic Tweeter
- High Responsiveness 2.5cm Titanium Dome Tweeter with Neodymium Magnet Realises Crystal-Clear High-Range Sound Reproduction
- 8cm Woofer Employing High Sound Speed, High Internal Loss PP Mica Graphite Diaphragm with 4-Layer Voice Coil for Rich Bass and Transparent Midrange Sounds
- Bi-Wiring Connection Capable for Higher Quality Sound Reproduction

Centre Speaker Section
- 3-Way 3-Speaker System
- DVD-Audio Ready, Wide Frequency Range up to 50kHz (-16dB) with Titanium Dome Tweeter
- High Responsiveness 2.5cm Titanium Dome Tweeter with Neodymium Magnet Realises Crystal-Clear High-Range Sound Reproduction
- 6.5cm Midrange Employing High Sound Speed, High Internal Loss PP Mica Graphite Diaphragm with Neodymium Magnet for Undistorted Clear Dialogue and Transparent Midrange Sounds.
- 8 cm Woofer Employing High Sound Speed, High Internal Loss PP Mica Graphite Diaphragm with 4-Layer Voice Coil for Rich Bass and Transparent Midrange Sounds.

Surround Speaker
- 2-Way, 3-Speaker System
- DVD-Audio Ready, Wide Frequency Range up to 50kHz (-16dB) with Titanium Dome Tweeter
- High Responsiveness 2.5cm Titanium Dome Tweeter with Neodymium Magnet Realises Crystal-Clear High-Range Sound Reproduction
- 8cm Woofer Employing High Sound Speed, High Internal Loss PP Mica Graphite Diaphragm with 4-Layer Voice Coil for Rich Bass and Transparent Midrange Sounds.

Subwoofer
- Dual Drive Construction Reduces Unwanted Vibration of Cabinet and Standing Waves
- Built-in Total 200W Power Amplifier
- Double Damper Construction 17cm Long Stroke Woofer with Double Motion Damper and Rubber Edge Enables Powerful Bass Sound
- 6-Layer Voice Coil and Powerful Magnetic Circuit Enable Powerful Deep Bass Reproduction
- Capable of Reproducing Down to 28Hz (-16dB)
- Aero Stream Port Minimises Distortion
- Low Pass Filter with Selectable Cut-Off Frequency
- Phase Switch (Normal/Reverse)
- Auto Power ON/OFF Function

Why Twin Centre?

With the high resolution of HD images, people can enjoy sitting closer to the TV – just like having front-row seats at the theatre. As TVs get bigger, the centre speaker gets farther away from the screen centre. This means that, when watching a large-screen HD TV, you're close to the screen and the centre speaker is too low – so dialogue in a movie seems to come from well below the picture. Panasonic solves this problem with the Twin Centre.
The centre speaker is integrated into the right and left front speakers, so the sound seems to come right out of the screen. This screen-centre sound effect can also be enjoyed by viewers who sit slightly to the right or left of the screen's centre, and it achieves a virtually seamless surround effect. This eliminates the hassle of trying to find a good place to set the centre speaker.

This is a conceptual drawing intended to show the speaker structure. The speaker net is not detachable.

Front/Centre Speaker

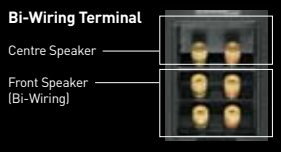
Twin Centre front speakers are ideal for today's large-screen HD TVs. From pure ultra-high 100-kHz frequency sounds to crisp mid-range sounds, these speakers deliver superb reproduction over a wide dynamic range, while creating a remarkably lifelike acoustic ambience and outstanding surround effect. The speaker units are wall-mountable.

Front Speaker Section
1. Bass-Reflex Port
2. 100kHz Super Sonic Tweeter
3. 2.5cm Titanium Dome Tweeter
4. 8cm PP Mica Graphite Woofer

Centre Speaker Section
3. 2.5cm Titanium Dome Tweeter
5. 6.5cm PP Mica Graphite Mid Range
6. 8cm PP Mica Graphite Woofer

Aluminium Cabinet
Bi-Wiring Terminal
OFC Internal Wiring Material
Independent Front/Centre Structure

This is a conceptual drawing intended to show the speaker structure. The speaker net is not detachable.



Surround Speaker

The Titanium Dome Tweeter can reproduce frequencies as high as 50 kHz. The PP Mica Graphite Woofer provides rich, clear mid-range sounds and covers a wide dynamic range. The speaker units are wall-mountable.

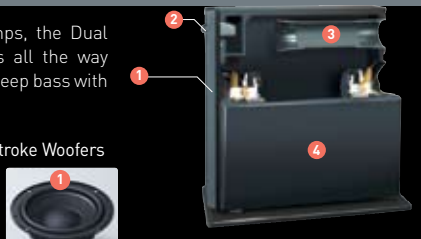
1. Bass-Reflex Port
2. 2.5cm Titanium Dome Tweeter
3. 8cm PP Mica Graphite Woofer

Large Speaker Terminal

Active Subwoofer

Featuring two high-output 100 W amps, the Dual Drive System reproduces frequencies all the way down to 28 Hz. It delivers a rich, ultra-deep bass with minimal resonance.

1. Dual Drive System with 17cm Long Stroke Woofers
2. Control Panel
3. Aero Stream Bass-Reflex Port
4. Two Built-in 100-W Amplifiers



SA-XR59

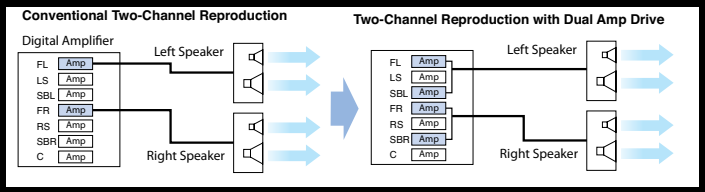
1. Super High-Quality Sound with Full-Digital Amplifier & Advanced Dual Amplifier
2. HDMI for High Definition 1080p Transmission
3. VIERA Link gives you streamlined control of Panasonic Plasma TV, BD Player and DVD Recorder

- Home Theatre Mode: Provides Equal High Power Output of 100W/ch– 7ch to Left/Centre/Right/Left Surround/Right Surround/Left Surround Back/ Right Surround Back
- Powerful Stereo Mode: 125W/ch (DIN) -2ch
- 192kHz/24-bit Audio A/D Converter for Analog Input
- DVD-Audio Ready for High Quality Sound (88kHz Reproduction, S/N 103dB)
- Dolby Pro Logic IIx and Dolby Digital EX, DTS 96/24 Decoder and DTS-ES, DTS-NEO:6 Decoder
- Sound Field Control (Music: Live, Pop/Rock, Vocal, Jazz, Dance, Party Movie: Drama, Action, Sports, Musical, Game)
- Bi-Amp Operation Mode with HF/LF Balance and Digital Linear Phase Adjustment
- Independent Simple Subwoofer Level Control
- Auto Speaker Setup for Quick and Easy Speaker Setting
- Status Message Display
- Speaker Configuration Settings for Each Channel: Large, Small, None (Except L/R Channels)
- High Quality Audio Parts
- A and/or B Speaker Selector
- Multi-Control Jog
- HDMI Terminals (2-In, 1-Out, VIERA Link)
- 6ch Discrete Inputs for Connection to Decoder Built-in DVD-Audio Player or DVD-Video Player
- 4 Digital Inputs (2 Optical, (2 Coaxial: 192kHz Compatible with DVD)]
- Front Audio/Video Input
- Gold Plated Terminals
- Large Speaker Terminals for All Channels
- Subwoofer Output for Extended Bass Reproduction
- 3 Component Video Terminals (2-In, 1-Out)
- 5 S-Video Terminals (4-In, 1-Out)
- RDS
- Quartz-Synthesised Digital Tuning System
- 10-Key Direct Tuning (Via Remote Control)
- Universal Remote Control Commands Most Current TVs, VCRs, DVD Recorders and DVD Players

High Quality Dual Amp Drive Reproduction

Dual Amp Drive

The SA-XR59 achieves superb reproduction by making it possible for two amps to drive ordinary (non-biwired) speakers connected via a single speaker cable. Conventional multi-channel amps use only one amp per speaker in 2-channel playback, and the surround channel amp is not used at all. But in the SA-XR59, Panasonic has applied original technology that takes full advantage of the characteristics of digital amps, completely synchronising the two amps in parallel so that they can drive a single speaker using the ordinary connection method. This capitalises on the outstanding response of the digital amp, while the double drive power adds richness and depth. The dual amp drive system automatically activates for 2-channel sources and then resumes ordinary drive for multi-channel sources. There is no need to change speaker cables to match the source.

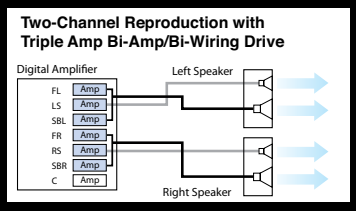


5.1ch with Dual Amp Drive (Advanced Dual Amp)

The SA-XR59 also uses its dual amp drive system to drive the left and right front speakers in 5.1ch playback mode. This enhances realism and ambience in movie soundtracks by delivering high-quality sound from the left and right front channels that play such an important role in reproducing movie sound effects and background music.

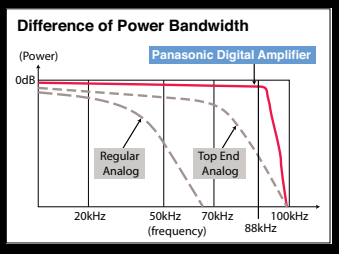
Triple Amp with Bi-Amp/Bi-Wiring Drive

When using bi-wired speakers with the SA-XR59, each speaker is driven by three amps for even higher sound quality. This bi-amp system drives the treble range with a single amp and the bass range with dual amps, using a total of six amps for high stereo fidelity.



Wide Frequency Range, Wide Power Bandwidth

Panasonic digital amplifiers boast a high frequency response up to 88 kHz and a wide power bandwidth with low distortion. And they drive the entire frequency range - something analogue amplifiers cannot do. The results are amplifiers that clearly reproduce even high-frequency sound components 20 kHz and above, and unleash the remarkable sound potential of DVD-Audio and other advanced sources.



SB-TP100

DVD Audio Ready

1. 5.1-Channel Tower Speaker System Designed to Match Panasonic Plasma TV
2. Slim, Powerful Active Subwoofer with Built-in 100W Power Amplifier
3. Pure Sound, Pure Emotion, Pure Excitement - True-to-Life Acoustic Imaging and Sound Field

- High Performance Network Design with High Sound Quality Capacitors (Front, Centre & Surround)
- 200W Max. High Input Power (IEC) (Front, Centre & Surround)
- Semi-Dome Tweeter Features Voice Coil Cooling System with Magnetic Fluid for Linear Frequency Response and Durability (Front, Centre & Surround)

Front & Surround Speakers

- 3-Way, 4-Speaker System
- DVD-Audio Ready, Wide Frequency Range up to 100kHz (-16dB) with Super Sonic Tweeter (Front & Surround)
- Semi-Dome Tweeter with Crossover Frequency Tuning for Wider Listening Area
- 8cm Slim Woofer with 4-Layer Voice Coil and Aramid-Fibar Diaphragm for Rich Bass and Transparent Midrange Sounds
- Wall-Mountable Design
- Resonance-Reducing Aluminum Cabinet
- Elegant Styling and Sturdy Speaker Stands
- Large Speaker Terminals
- Magnetic Shielding for Home Cinema Use

Centre Speaker

- 3-Way 5-Speaker System
- DVD-Audio Ready, Wide Frequency Range up to 50kHz (-16dB) with Semi-Dome Tweeter
- Coaxial Configuration Speaker Units with Staggered Arrangement of Network for Superb Localisation
- 5cm Woofer with Aramid-Fiber Diaphragm for Transparent Midrange Sounds
- Magnetic Shielding for Home Cinema Use

Subwoofer

- Built-in 100W (6 ohms, 0.9%THD) Power Amplifier
- Aero Stream Port Minimises Distortion
- 17cm Long Stroke Woofer
- Low Pass Filter with Selectable Cut-Off Frequency
- Phase Switch (Normal/Reverse)
- Auto Power ON/OFF Function

Front & Surround Speakers

2.5cm Semi-Dome Tweeter
The use of a magnetic fluid suppresses heat generation in the voice coil, eliminating any adverse effect that heat would have on sound quality. This helps deliver a sound with outstanding linearity while also improving durability.

Super Sonic Tweeter
Thanks to a new technology, the Super Sonic Tweeter can reproduce high-frequency sounds all the way up to 100 kHz – more than enough to reproduce the breathtaking 96-kHz sounds of 192-kHz/24-bit DVD-Audio. Because this tweeter can reproduce even the peaks of the high-frequency range, it replicates the harmonics of a musical source. You get a pure, true-to-life sound with all the nuances and subtlety of the original.

Resonance-Reducing Aluminum Cabinet
The speaker cabinet is constructed of extruded aluminum and features a monocoque construction for optimum rigidity. The cabinet reduces resonance, minimising unwanted vibrations for clear sound reproduction.

8cm Slim Woofer
A magnetic circuit with a 4-layer voice coil provides rich bass, and an aramid-reinforced pulp diaphragm reproduces transparent midrange sounds. A new woofer mounting method reduces unwanted cabinet resonance.

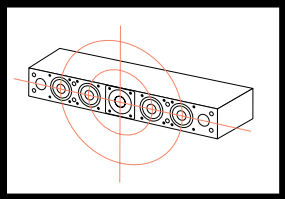
Adjustable Height
You can adjust the height of the speakers from 1,183mm to 1,428mm.

Elegant Styling and Sturdy Speaker Stands
The aluminum cabinet and acrylic panel combine to form a highly attractive exterior with a polished appearance that will complement virtually any decor. Made of a rigid, high-quality metal, the speaker stands provide excellent stability and help minimise sound distortion due to vibration.

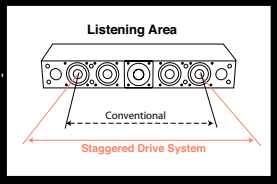
Wall-Mountable Design
If desired, you can remove the stands and mount the speakers on the wall. Their slim design makes it possible to build a sleek, smart home cinema.

Centre Speaker

Coaxial Configuration Speaker Unit
These five-speaker units have the tweeter in the centre and the other units arranged symmetrically around it, two on each side. The excellent acoustic imaging provided by this virtual coaxial configuration makes movie dialogue extremely clear and easy to hear.



Staggered Drive System Creates a Wider Listening Area
When speakers are spaced widely apart, the volume seems to sound lower unless you're right in front of a speaker. This is because of phase interference. To reduce this phenomenon, we developed the new Staggered Drive System, which sets the upper frequency range individually for the inside and outside woofers. This reduces sound cancelling, which in effect widens the listening area.



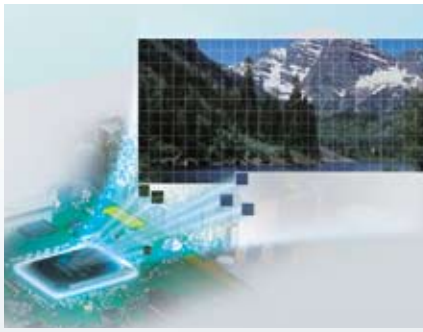
Subwoofer

17cm Long Stroke Woofer
A double-motion damper and a rubber edge are used to support the diaphragm, helping produce clear, clean bass with minimal distortion even at high volumes. The unit is driven by a 6-layer wound voice coil and powerful magnet which help deliver dynamic low-frequency sounds with large amplitude.

Aero Stream Bass-Reflex Port
We gave the Aero Stream Bass-Reflex Port a smoother shape to reduce noise from turbulent air currents when the unit is played at high volumes. The smoother air flow helps achieve a crisp, clean bass with minimal distortion.

DIGA Ha

High Picture Quality



Easy Operation

Archive

Superb Image Quality, Easy Operation and Outstanding Network Connectivity as Everything You Need to Enjoy the HD Age*

Selected DIGA models feature an original 1080p up-conversion function that converts signals from ordinary DVD discs and other recorded content into HD-quality signals that create spectacular images on a large-screen TV. In the HD age, you'll have a variety of AV components in your living room - and that means a lot of remote control units. VIERA Link takes all the confusion out of operation. With VIERA Link function, you can control all your components using only your VIERA's remote control. Operation is easy, and there's no more hunting around for separate remote controls. Also in the HD age, different kinds of AV media come together. For example, you can view pictures taken with your digital camera or video camera on a large-screen TV. DIGA has the kind of network connectivity you need to enjoy it all. You can load a large amount of AV data from cameras and other components into a DIGA recorder, and enjoy easy playback, editing or storage. You don't even need to use your PC. What do you want to do in the HD age? With DIGA, the possibilities are endless.

*DIGA cannot record, play or store HD (high-definition) images.

DMR-EX87 DVD Recorder with HDD (250GB) & SD Slot

1. 1080p Up-Conversion with HDMI
2. VIERA Link & HDMI Simple Connection
3. Integrated DVB Tuner (SD)

High Picture Quality
- 1080p Up-Conversion with HDMI
- Intelligent i/p Conversion
- Integrated DVB Tuner (SD)
- 2x LP Horizontal Resolution (500 Lines)
- 4x Natural Gradation
- Progressive Scan

Easy Operation
- VIERA Link & HDMI Simple Connection
- Super Multi-Format Recording & Playback (DVD-RAM[1], DVD-R[1 2], DVD-R DL[1 2 3], DVD-RW[1 2], +R, +R DL[3], +RW discs.)
- 1 Sec. Quick Start for Rec[4]. (HDD & DVD-RAM only)
- Auto Drive Select (HDD ↔ DVD, HDD ↔ SD Memory Card)
- Auto DVD Disc Finalising

Archive
- Photo Storage & JPEG View with SD slot
- MPEG2 Movie Recording & Playback with SD slot[5]
- DV Auto Recording (DVD-RAM[1], DVD-R[1 2], DVD-RW[1 2], +R, +RW disc) & Playlist Creation[6]
- DVD-RAM Advantage
- DivX®[7] Playback

DMR-EX77 DVD Recorder with HDD (160GB) & SD Slot

1. 1080p Up-Conversion with HDMI
2. VIERA Link & HDMI Simple Connection
3. Integrated DVB Tuner (SD)

High Picture Quality
- 1080p Up-Conversion with HDMI
- Intelligent i/p Conversion
- Integrated DVB Tuner (SD)
- 2x LP Horizontal Resolution (500 Lines)
- 4x Natural Gradation
- Progressive Scan

Easy Operation
- VIERA Link & HDMI Simple Connection
- Super Multi-Format Recording & Playback (DVD-RAM[1], DVD-R[1 2], DVD-R DL[1 2 3], DVD-RW[1 2], +R, +R DL[3], +RW discs.)
- 1 Sec. Quick Start for Rec.[4] (HDD & DVD-RAM only)
- Auto Drive Select (HDD ↔ DVD, HDD ↔ SD Memory Card)
- Auto DVD Disc Finalising

Archive
- Photo Storage & JPEG View with SD slot
- MPEG2 Movie Recording & Playback with SD slot[5]
- DV Auto Recording (DVD-RAM[1], DVD-R[1 2], DVD-RW[1 2], +R, +RW disc) & Playlist Creation[6]
- DVD-RAM Advantage
- DivX®[7] Playback

1 Including CPRM-compatible DVD Discs. 2 Recording is possible only in DVD-Video format. 3 You cannot directly record to a DVD-R DL and +R DL disc. Record to the HDD and then copy to the disc. 4 When connecting to TV using 21-pin Scart, Component Video, Video or S-Video terminals. From the power on, recording starts in about 1 second after REC button is pressed. (Quick Start Mode). 5 To enjoy viewing movies recorded on an SD Memory Card, copy the MPEG2 Movie data to the hard disk drive or DVD-RAM and then play back. 6 Only when recording onto the DVD-RAM or HDD. 7 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license. About DivX. DivX is a opular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size.

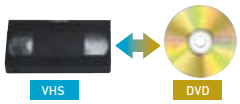
DMR-EZ47V DVD Recorder with VHS VCR

1. 1080p Up-Conversion with HDMI
2. VIERA Link & HDMI Simple Connection
3. Integrated DVB Tuner (SD)

High Picture Quality
- 1080p Up-Conversion with HDMI
- Intelligent i/p Conversion
- Integrated DVB Tuner (SD)
- 2x LP Horizontal Resolution (500 Lines)
- VCR Refresh Copying to DVD
- Progressive Scan

Easy Operation
- VIERA Link & HDMI Simple Connection
- Super Multi-Format Recording & Playback (DVD-RAM[1], DVD-R[1,2], DVD-R DL[1,2,6], DVD-RW[1,2], +R, +R DL[6], +RW discs.)
- Auto Drive Select [DVD ↔ VHS]
- Auto DVD Disc Finalising
- One-touch 2-way Copying
- Direct Navigator for Quick, Easy Search
- 1 Sec. Quick Start for REC & EPG Display[4] (DVD-RAM only)
- Time Slip Function

Archive
- DV Auto Recording (DVD-RAM[1], DVD-R[1,2], DVD-RW[1,2], +R, +RW disc) & Playlist Creation[5]
- DivX®[7] Playback



DMR-EH57-K DVD Recorder with HDD (160GB)

1. 1080p Up-Conversion with HDMI
2. VIERA Link & HDMI Simple Connection

High Picture Quality
- 1080p Up-Conversion with HDMI
- Intelligent i/p Conversion
- 2x LP Horizontal Resolution (500 Lines)
- 4 x Natural Gradation
- Progressive Scan

Easy Operation
- VIERA Link & HDMI Simple Connection
- Super Multi-Format Recording & Playback (DVD-RAM[1], DVD-R[1,2], DVD-R DL[1,2,3], DVD-RW[1,2], +R, +R DL[3], +RW discs.)
- 1 Sec. Quick Start for REC[4] (HDD & DVD-RAM only)
- Auto DVD Disc Finalising

Archive
- DV Auto Recording (DVD-RAM[1], DVD-R[1,2], DVD-RW[1,2], +R, +RW disc) & Playlist Creation[8]
- DivX®[7] Playback

1 Including CPRM-compatible DVD Discs. 2 Recording is possible only in DVD-Video format. 3 You cannot directly record to a DVD-R DL and +R DL disc. Record to the HDD and then copy to the disc. 4 When connecting to TV using 21-pin Scart, Component Video, Video or S-Video terminals. From the power on, recording starts in about 1 second after REC button is pressed. (Quick Start Mode). 5 Only when recording onto the DVD-RAM. 6 You can record onto the second layer of a dual or double layer disc after closing the first layer. 7 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®[6]) with standard playback of DivX® media files. DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license. About DivX. DivX is a opular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size. 8 Only when recording onto the DVD-RAM or HDD.

DMR-ES35V DVD Recorder with VHS VCR

High Picture Quality
- 2x LP Horizontal Resolution (500 Lines)
- VCR Refresh Copying with TBC & DNR

Easy Operation
- Super Multi-Format Recording & Playback
- One-touch 2-way Copying
- 1 Sec. Quick Start for REC (DVD-RAM[1])
- Universal Design GUI (Graphic User Interface)

Archive
- DV Auto Recording & Playlist Creation
- DivX[2] Playback

DMR-ES15 DVD Recorder

High Picture Quality
- 2x LP Horizontal Resolution (500 Lines)
- VCR Refresh Copying with TBC & DNR

Easy Operation
- Super Multi-Format Recording & Playback
- 1 Sec. Quick Start for REC (DVD-RAM[1])
- Universal Design GUI (Graphic User Interface)

Archive
- DV Auto Recording & Playlist Creation
- DivX[2] Playback

For full specifcations on the DMR-ES35V and DMR-ES15 please refer to www.panasonic.com.au or the 2006-2007 DVD Recorder Brochure.

1 From the power off state, recording on DVD-RAM starts about 1 second after first pressing the power burtton and then sequentially pressing the REC button (Quick Start Mode).
2. Official DivX Certified™ Product. Plays DivX[5], DivX[4], DivX[3] and DivX® VOD Video Content (in compliance with DivX Certified™ technical requirements), DivX, DivX Certified, and associated logos are trademarks of DivX Networks, Inc. and are used under license.

DVD Recorder Quick Reference Guide		DMR-EX77	DMR-EX87	DMR-EH57-K	DMR-EZ47V	DMR-ES35V	DMR-ES15
HIGH PICTURE QUALITY	Digital Tuner (SD)	•	•	-	•	-	-
	HDD	• (160GB)	• (250GB)	• (160GB)	-	-	-
	1080p Up-Converter with HDMI	•	•	•	•	-	-
	2 x LP Horizontal Resolution (500 Lines)	•	•	•	•	•	•
EASY OPERATION	HDMI	•	•	•	•	-	-
	Viera Link (HDMI)	•	•	•	•	-	-
	Recording Media	DVD-RAM/RW/-R/ -R DL/+RW/+R/ +R DL	DVD-RAM/RW/-R/ -R DL/+RW/+R/ +R DL	DVD-RAM/RW/-R/ -R DL/+RW/+R/ +R DL	DVD-RAM/RW/-R/ -R DL/+RW/+R/ +R DL	DVD-RAM/RW/-R/ +RW/+R	DVD-RAM/RW/-R/ +RW/+R
	VHS	-	-	-	•	•	-
ARCHIVE	Photo Storage & Quick View with SD Slot	•	•	-	-	-	-
	DV Auto Recording	•	•	•	•	•	•

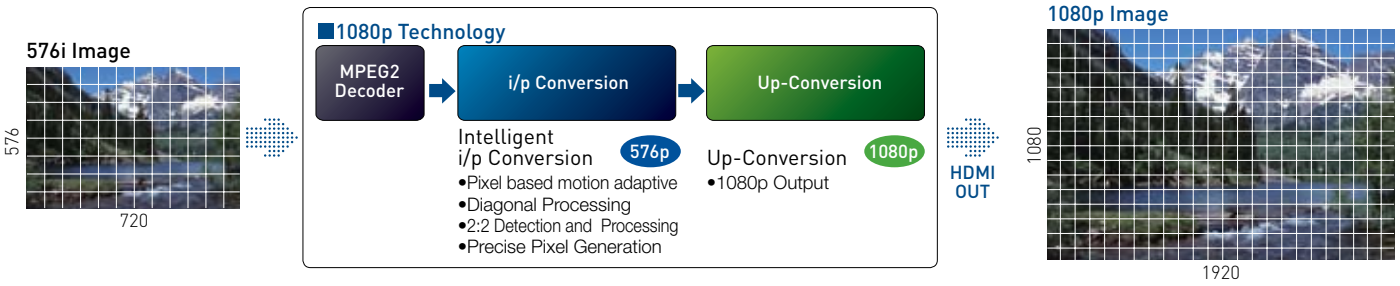
1080p Up-Conversion*

5x Richer

1080p Technology

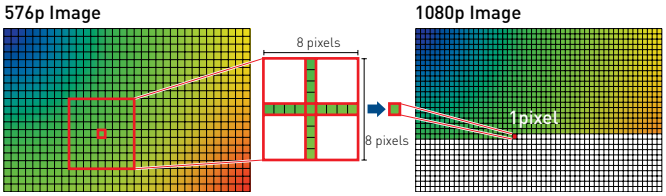
Ordinary TV broadcasts and DVD discs provide SD images with 640 x 480 pixels or 720 x 576 pixels. Today's newest HDTVs, on the other hand, can display images with 1920 x 1080 pixels. HD Displays require high-quality image sources suitable for their large screens. If the optimisation process for high-quality images is inadequate, the picture can become blurry or grainy.

DIGA's original i/p conversion and up-conversion functions solve this problem. These functions convert SD signal from DVD discs or DIGA's own hard disk drive into 1080p signals that provide high-resolution images. The conversion process boosts the amount of image information by about 5 times, so pictures are clear and beautiful.



Up-Conversion

Creating an HD image from a non-HD source, it requires obtain as much information as possible about each pixel in the original image. In the up-conversion process, DIGA calculates eight pixels in the horizontal direction and eight in the vertical direction at the same time using a high-speed algorithm. The information obtained in this process is used to create smooth, natural-looking, high-resolution 1080p images.



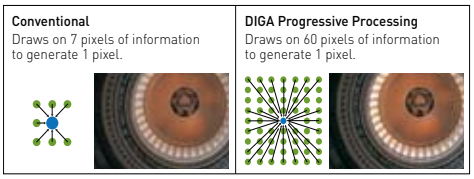
Intelligent i/p Conversion

DIGA uses Precision Pixel Generation technology in combination with three advanced functions - Pixel-Based Motion Adaptive, Diagonal Processing, and 2:2 Detection and Processing - to apply the type of i/p conversion that best suits the image.

Precise Pixel Generation

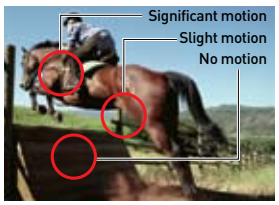
Using a high-speed algorithm, this technology generates a new pixel for an image area from information obtained from 60 neighboring pixels.

●Source Pixel ●Created Pixel



Pixel-Based Motion Adaptive

This function detects motion in the image and classifies it into one of four levels. It then applies the type of processing that's best suited to the level of motion.



Diagonal Processing

This function detects where there are diagonal lines in an image such as a building, and eliminates jaggies to make the lines smooth and razor sharp.

2:2 Detection and Processing

This function determines whether the playback source is a film or video. It then applies the most suitable type of i/p conversion accordingly.

*1080p compatible TV required.

2X LP Horizontal Resolution (500 Lines)

Panasonic original technology enables LP mode recording with the same 500 lines (D1) of horizontal resolution as that in the SP and XP modes, which is double the horizontal resolution compared to the 250 lines (1/2 D1) of conventional LP mode recording. Thanks to this, you can enjoy viewing extended recordings (4 hours [single-sided DVD-RAM, DVD-R, DVD-RW, +R, +RW] /7 hours 10 minutes [double sided DVD-RAM, DVD-R, DVD+R]) with exceptionally detailed images and twice the picture quality.

4x Natural Gradation

The 12-bit Analogue-to-Digital converter provides an extremely dense 4,096 steps of gradation. Compared to the 1,024 steps possible with a regular 10-bit Analogue-to-Digital converter, this enables recording with four times as many smooth steps. The result is faithful reproduction of the details in both the bright and dark parts of scenes, so that for the first time you can see everything there is to see.

Progressive Scan (PAL/NTSC)

Panasonic DVD Recorders are equipped with a high-precision progressive video processor that handles 60-frame progressive scan images* on NTSC discs and 50-frames progressive scan images on PAL. This lets you enjoy high-resolution progressive playback of original DVD images. To enjoy a progressive scan picture, you must use a TV with progressive scan capabilities.

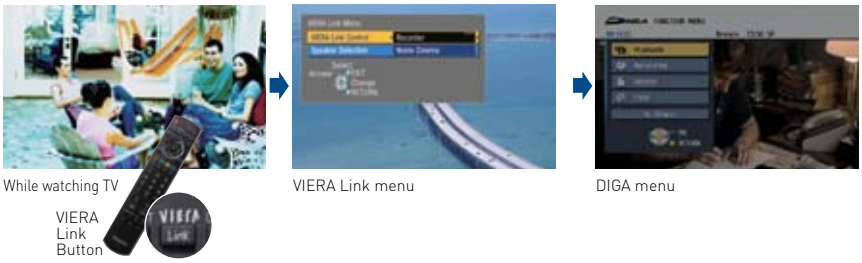
*To enjoy a progressive scan picture, a TV with progressive scan capabilities must be used.

VIERA Link[1]

The TV menu screen switches seamlessly to the DIGA menu screen for easy DIGA operation.

DIGA Menu Operation[2]

Suppose that while you are watching one TV program you decide that you want to play a previously recorded program, or set the unit to record a future broadcast. Simply press the VIERA Link button, and the TV screen switches to the VIERA Link menu screen. After selecting the DVD recorder on the menu screen, it allows you to set timer recordings or use playback functions on the fly.



Direct Navigator Operation[2]

If you want to view previously recorded content, after the DIGA menu appears on the screen simply select "Playback" Video thumbnails of recorded content will then appear on the screen. Select the desired thumbnail, and playback will begin immediately.

Recording[2]

When you want to program DIGA to record a broadcast, select "Recording" when the DIGA menu appears on the screen. You can select the desired channel and set up the recording schedule easily.

Yet More Convenient Operations[3]

Automatic Input Switching for DIGA Playback

When DIGA playback starts, the TV's input automatically switches to DIGA. There is no need to use "INPUT SELECT" to display the playback content.

Automatic Input Switching for DIGA Operation Menu

When you press one of the DIGA remote control buttons, such as "DIRECT NAVIGATOR," while watching a TV program, VIERA automatically displays the DIGA operation menu.

Automatic Standby Mode

When the power is turned off with TV's remote control, the power of all AV products connected with HDMI cables is also automatically turned off.

1 Non-HDMI-compliant cables cannot be utilised. Panasonic HDMI Cables are highly recommended.
2 This function is available for DIGA recorders used with 2007 Panasonic flat-panel TV models.
3 This function is available for DIGA recorders used with 2006 or later Panasonic flat-panel TV models.

Super Multi-format Recording & Playback

All DIGA DVD recorders offer the ease and convenience of Super Multi-Format Recording and Playback, which lets users play all of their DVDs, regardless of the recording format. DIGA models can record and play back DVD-RAM[1], DVD-R[12], DVD-R DL[1234], DVD-RW[12], +R, +R DL[34], +RW discs. So you don't have to worry about whether your DIGA can play back everything in your current video library.

1 Including CPRM-compatible DVD Discs. 2 Recording is possible only in DVD-Video format. 3 With DMR-EX87/EX77, you cannot directly record to a DVD-R DL and +R DL disc. Record to the HDD and then copy to the disc. 4 With DMR-EZ47V/EZ27, you can record onto the second layer of dual- or double layer discs after closing the first layer.

All the formats you can enjoy

VR format recording is possible only with DVD-RAM. Playback is not possible for DVD-R, DVD-R DL discs that were recorded in VR format by a different recorder. Playback is possible with DVD-R, DVD-R DL, DVD-RW discs that were recorded and finalised in DVD-Video format by a different recorder.

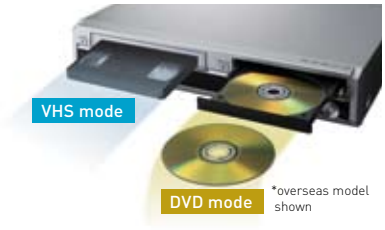
One-Touch 2-way Copying[12] (DVD<->VHS)

Simply press a button, and One-touch 2-way Copying lets you transfer material from a VHS tape to a DVD discs[2] or vice versa. This means you can easily record your entire video library to DVD for a collection that takes up much less space. During tape-to-DVD discs[2] copying, there's also a handy function that reads recording start (VISS) signals on a tape, and automatically creates thumbnails on the DVD discs[2].

1 One-Touch 2-way Copying is possible with DVD discs[2] that have not been finalised.
2 DMR-EZ47V & DMR-ES35V only.
3 DVD discs are DVD-RAM, DVD-R, DVD-R DL, DVD-RW, +R, +R DL, +RW

Auto Drive Select (DVD<->VHS)*

Simply load the medium and the drive is automatically confirmed before playback starts.



*overseas model shown

*DMR-EZ47V & DMR-ES35V only.

Archive — Save all your precious memories

Photo* Storage & Viewer with SD Slot (DMR-EX87/EX77)

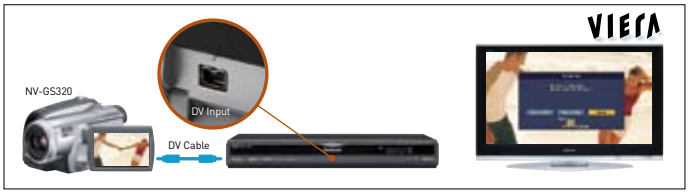
Use the memory card slots to transfer images from an SD Memory Card and SDHC Memory card to the built-in hard disk drive or a DVD-RAM. View the images in a slide show on your TV.

* The DMR-EX87/77 are compatible with DCF [Design rule for Camera File system] based still picture (JPEG) files recorded using a digital camera.

DV Auto Recording* (DMR-EX87/EX77)

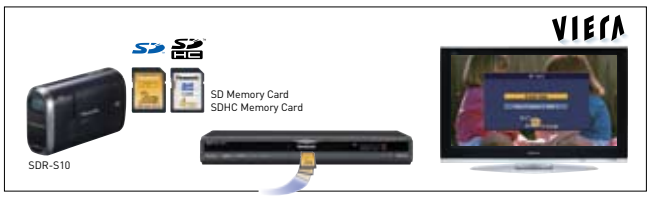
DV cable simply connect a digital video camera to the DV input terminal, and you're ready to record images from the video camera onto the hard disk drive or DVD-RAM, DVD-R*, DVD-R DL*, DVD-RW*, +R, +R DL, +RW discs.

* Recording is possible only with DVD-Video format.



MPEG2 Movie Recording & Playback with SD slot (DMR-EX87/77)

To enjoy viewing movies recorded on an SD Memory Card and SDHC Memory card, simply copy the MPEG2 Movie data to the hard disk drive or DVD-RAM and then play back.



DVD-RAM Advantage* (DMR-EX87/77)

You can store both digital snapshots and digital video footage as well as PC data files on the same DVD-RAM.

* DVD-RAM only

Max. 75x High-speed Copying from Hard Disk Drive

You can perform high-speed recording from the hard disk drive to DVD-RAM (5x speed compatible), DVD-R (12x speed compatible) or others. For example, you can record a one-hour program originally recorded in the EP [8H] mode) from the hard disk drive to a DVD-RAM disc in just 1.5 minutes, or to a DVD-R disc in only 48 seconds. What's more, you can also record from DVD-RAM to the hard disk drive.

Independent Operation

You can record, play or make timer-recording settings while recording at high speed from the hard disk drive to a DVD disc.

Editable

Recorded programs can be recorded at high speed after editing them to delete unwanted scenes and rearrange their sequence.

High Speed

DVD-RAM **40x** (EP [8H] Mode)

DVD-R Max. **75x** [EP [8H]

*overseas model shown

Recording Time from Hard Disk Drive to DVD in Maximum Speed

(Approximate)

On Hard Disk Drive		5x speed disc DVD-RAM		16x speed disc DVD-R		4x speed disc DVD-R DL		4x speed disc DVD-RW		8x speed disc +R		2.4x speed disc +R DL		4x speed disc +RW	
Mode	Recorded Program	Recording Time	Recording Speed	Recording Time	Recording Speed	Recording Time	Recording Speed	Recording Time	Recording Speed	Recording Time	Recording Speed	Recording Time	Recording Speed	Recording Time	Recording Speed
XP	1 hour	12 min.	5x	6 min.	10x	15 min.	4x	15 min.	4x	8 min 35sec.	7x	25 min.	2.4x	15 min.	4x
SP	1 hour	6 min.	10x	2 min 25 sec.	25x	7 min 30 sec.	8x	7 min 30 sec.	8x	4 min 10sec.	14x	12 min 30sec.	4.8x	7 min 30sec.	8x
LP	1 hour	3 min.	20x	1 min15 sec.	48x	3 min 45 sec.	16x	3 min 45sec.	16x	2 min 25sec.	25x	6 min 15sec.	7.2x	3 min 45sec.	16x
EP (6H)	1 hour	2 min.	30x	52 sec.	69x	2min 30 sec.	24x	2min 30 sec.	24x						
EP (8H)	1 hour	1 min 30 sec.	40x	42 sec.	Max.86x			1 min 53sec	32x						

Time Slip Functions

Chasing Playback*

You set the DVD Recorder to start recording at 6:00 PM, when your favorite show begins. The problem is that you get home at 7:00 PM, while the program is still in progress. With the handy Chasing Playback function, you don't have to wait till recording is finished to watch the show. You can play it from the beginning while it continues to record to the end.

* DVD-RAM and HDD only.

Simultaneous Recording & Playback*

While you're recording this week's episode of your favorite show, you may want to watch last week's episode. The Simultaneous Recording & Play function makes it possible. It lets you record one program while you watch another one that has already been recorded onto the same disc.

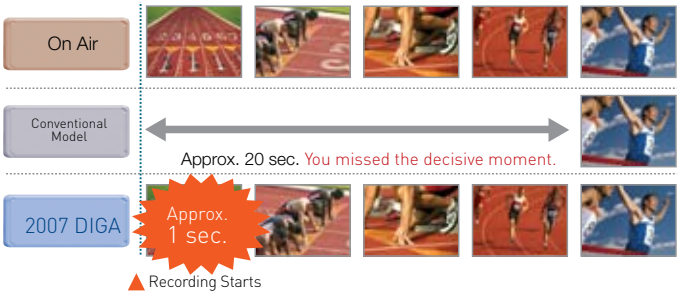
* DVD-RAM and HDD only.

Time Slip Button

The Time Slip function lets you playback desired scenes. With one touch of the Time Slip Button on the remote control, you can select the time in a dialogue box and return to the desired scene.

1 Sec. Quick Start for Recording and EPG Display*

Thanks to high-speed quick start, the DVD-RAM discs and HDD are ready to record just one second after switching on the power. When connecting to TV using 21-pin Scart, Component Video, Video or S-Video terminals, from the power on, recording starts in about 1 second after REC button is pressed. Being able to record almost immediately means you'll never miss the scenes you want to catch. If the GUIDE button is pressed while the unit is off, the Electronic Program Guide (EPG) displays in less than 1 second in Quick Start Mode. You can also set the recording schedule on EPG immediately. *EPG Information is dependant on transmission of program information from Broadcaster.



Direct Navigator for Quick, Easy Search

Find desired programs fast. Just press the Direct Navigator button to display thumbnails of all the programs on the hard disk drive or a DVD-RAM disc, then, select the one you want and press Enter. It's that easy. And with "List Display" you can sort programs by date or title.

Moving-Picture Thumbnails

You can check the selected program with moving pictures and sound.

Switchable

List Display

This is convenient when you have recorded many programs onto a hard disk drive.

Auto DVD Disc Finalising

When ejecting a DVD discs* you've recorded on, a window is displayed to remind you not to forget to finalise the disc.

* DVD discs are DVD-R, DVD-R DL, DVD-RW, +R, +R DL.

DVD-S53

1. High Definition (1080p/1080i) Up-Conversion with HDMI & HD Enhancer
2. VIERA Link
3. Multi-Format Playback (DVD Multi & DivX®[1])

Video Features
- 1080p Up-Conversion with HDMI
- 108MHz/12-bit Video D/A Converter
- Advanced Progressive Scan[6] (PAL/NTSC) PAL Progressive Scan for Plasma Display/LCD/LCD Projector** [4:4:4 Signal Processing/4:3 Shrink Function/Letterbox Zoom]
- Variable & Auto Zoom
- Digital Noise Reduction (MPEG DNR)
- Picture Mode (NORMAL, CINEMA1, CINEMA2, ANIMATION, DYNAMIC, SOFT SKIN DETAIL)
- Monitor Selector for Optimum Picture Quality According to Monitor Type

Convenient Features
- VIERA Link
- Multi-Format Playback (DVD-Video, DVD-RAM, DVD-RW[2], DVD-R[2], DVD-R (Dual Layer)[2], +R[2], +R (Double Layer)[2], +RW[2], SVCD[3], Video CD, CD, CD-R/RW[4], WMA, MP3[4], JPEG, MPEG4[5] and DivX®[1])
- DVD-RAM Speed Control Playback
- Direct Navigator, Playlist Playback (DVD-RAM)
- Slow & Fast Audio Playback (DVD-RAM/DVD-Video)
- Hi-Speed Search (x64)
- Quick OSD (Progress Indicator Included)
- Manual Skip
- Quick Replay
- Quick Guide Set Up
- Audio/JPEG Navigation Menu

DVD-S33

1. Multi-Format Playback (DivX®[1] and MPEG4[5] Playback)
2. High Quality Picture 108MHz/12-bit Video DAC & Digital Noise Reduction
3. Easy-to-Use (Remote Control and On-Screen Display)

Video Features
- Advanced Progressive Scan[6] (PAL/NTSC) PAL Progressive Scan for Plasma Display/LCD/LCD Projector [4:4:4 Signal Processing/4:3 Shrink Function/Letterbox Zoom]
- Variable & Auto Zoom
- Picture Mode (NORMAL, CINEMA1, CINEMA2, ANIMATION, DYNAMIC, SOFT SKIN DETAIL)
- Monitor Selector for Optimum Picture Quality According to Monitor Type

Convenient Features
- Playable Format (DVD-Video, DVD-RW[2], DVD-R[3], DVD-R (Dual Layer)[2], +R[2], +R (Double Layer)[2], +RW[2], SVCD[3], Video CD, CD, CD-R/RW[4], WMA, MP3[4], JPEG, MPEG4[5] and DivX®[1])
- Slow & Fast Audio Playback (DVD-RAM/DVD-Video)
- Hi-Speed Search (x64)
- Quick OSD (Progress Indicator Included)
- Manual Skip
- Quick Replay
- Quick Guide Set Up

DVD-F87

1. "CD Mode" - High Speed Access from Disc to Disc
2. Dolby® Surround Pro Logic® II
3. High Quality Sound by Multi Re-Master

Video Features
- Advanced Progressive Scan[6] [4:4:4 Signal Processing/4:3 Shrink Function/Letterbox Zoom & Shift]
- Variable & Auto Zoom
- Depth Enhancer for a More Natural-Looking Picture
- 54MHz/10-bit Video D/A Converter
- Picture Mode (NORMAL, CINEMA1, CINEMA2, ANIMATION, DYNAMIC)
- Picture Adjustment (Brightness, Colour, Contrast, Sharpness, Gamma Correction)
- Monitor Select for Optimum Picture Quality According to Monitor Type
- Component Video Out (NTSC: 525(480)p/525(480)i, PAL: 625(576)p/625(576)i)
- Black Level Control

Convenient Features
- Built-in 5-Disc Rotary Changer
- Sequential CD Playback
- DVD-RAM Compatible
- Multi-Format Playback (DVD-Audio, DVD-Video, DVD-RAM/R[2], CD, CD-R/RW[4], HighMAT (Level 2), WMA, MP3[4], JPEG and HDCD)
- One Touch AV Enhancer
- DVD-RAM Speed Control Playback
- Slow & Fast Audio Playback
- Direct Navigator, Playlist Playback (DVD-RAM)
- Super Hi-Speed Scan: 5 Speeds up to x200
- Progress Indicator
- Quick Replay
- Sleep Timer
- Quick Guide Set Up
- New Graphic User Interface
- Audio/JPEG Navigation Menu
- Twin Laser Pickup for DVD/CD Playback
- Easy-to-Operate One-Touch Remote Control

1 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. DivX®, DivX® Certified, and associated logos are trademarks of DivX®, Inc. and are used under license. About DivX® DivX® is a popular media technology created by DivX®, Inc. DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size. 2 Discs recorded and finalised on DVD video recorders/cameras. 3 Playability may vary depending on the content, discs and quality of the recording. 4 For content recorded for your personal use only. 5 You can play MPEG4 data (conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system G.726 audio system) recorded with the Panasonic SD multi cameras or DVD Recorders on to CD-R/RW or DVD-RAM.This product is licensed under the MPEG-4 Visual patent portfolio license for the personal and non-commercial use of a consumer for (i) encoding video in compliance with the MPEG-4 Visual Standard ("MPEG-4 Video") and/or (ii) decoding MPEG-4 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed by MPEG LA to provide MPEG-4 Video. No license is granted or shall be implied for any other use. Additional information including that relating to promotional, internal and commercial uses and licensing may be obtained from MPEG LA,LLC. See http://www.mpegla.com. 6 To enjoy a progressive scan picture, a TV with progressive scan capabilities must be used.

DVD-LS80

1. Multi- Format Playback
2. Free Style Viewing with 8.5" Diagonal Widescreen LCD Display
3. Headrest Mounting Bracket/Car DC Adaptor for Multi-Use

Portable Features
- Free Style Viewing with 8.5" diagonal widescreen (aspect 16:9) LCD display
- Up to 6-Hour Playback Time[7] with included rechargeable battery
- Multi-Format Playback: DVD-Video, DVD-RAM, DVD-RW[1], DVD-R[1], DVD-R (Dual Layer)[1], +R[1], +R (Double Layer)[1], +RW[1], SVCD[1], Video CD, CD, CD-R/RW[2], HighMAT (Level 2), WMA, MP3[3], JPEG, MPEG4[4] and DivX®[5]
- Built-in Stereo Speaker
- LCD Mode
- LCD Selector (NORMAL/FULL)
- Picture Adjustment on LCD (BRIGHT/COLOUR)

Video Features
- 108MHz/12-bit Video D/A Converter
- MPEG Digital Noise Reduction removes noise components from the video signal
- Cinema Mode
- Depth Enhancer

Audio Features
- 96kHz/24-bit D/A Converter
- Built-in Dolby Digital and DTS Decoder
- H.Bass
- Advanced Surround (Speaker Surround/Headphone Surround)

Convenient Features
- Headphone Terminal x2
- Electronic Skip Protection
- Dialogue Enhancer
- AV Input
- Mono Arm for Flexible Display Angle
- Super Hi-Speed Scan: up to x200
- Variable Playback Speed Control (x0.6 – x1.4)
- Playback Mode Setting (REPEAT)

Included Accessories
- Car DC Adaptor
- Headrest Mounting Bracket[6]
- Audio/Video Cord
- Battery Pack
- AC Adaptor

You can also transform your car's rear seat area into a theatre in three easy steps!

1 Install the car bracket[6].

2 Mount the DVD-LS80 into the car bracket.

3 And your rear-seat theatre is completed!

Free Style Viewing

Adjustable LCD Display to suit any environment

1 Discs recorded and finalised on DVD video recorders/cameras. 2 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording.
3 For content recorded on DVD-RAM, DVD-R/-RW and CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs.4 You can play MPEG4 data (conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system) recorded with the Panasonic SD multi cameras or DVD Recorders on to DVD-RAM, DVD-R/ -RW or CD-R/RW. This product is licensed under the MPEG-4 Visual patent portfolio license for the personal and non-commercial use of a consumer for (i) encoding video in compliance with the MPEG-4 Visual Standard ("MPEG-4 Video") and/or (ii) decoding MPEG-4 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed by MPEG LA to provide MPEG-4 Video. No license is granted or shall be implied for any other use. Additional information including that relating to promotional, internal and commercial uses and licensing may be obtained from MPEG LA,LLC. See http://www.mpegla.com. 5 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. DivX®, DivX® Certified, and associated logos are trademarks of DivX®, Inc. and are used under license. About DivX®: DivX® is a popular media technology created by DivX®, Inc. DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size. 6 Depending on the type of headrest, you may not be able to attach the bracket. 7 When brightness is set to the lowest level and headphones are used.

DVD Player Quick Reference Guide				DVD-S53	DVD-S33	DVD-F87	DVD-LS80
FORMAT	Playable Type	DVD	DVD-Video	•	•	•	•
			DivX®[1]	•	•	-	•
		CD, CD-R/RW[5]	CD-DA	•	•	-	•
			Video CD	•	•	-	•
			SVCD[6]	•	•	-	•
			WMA	•	•	•	•
			MP3[2]	•	•	•	•
			JPEG	•	•	•	•
			MPEG4[3]	•	•	-	•
			DivX®[1]	•	•	-	•
VIDEO	Video D/A Converter			108MHz/12-bit	108MHz/12-bit	54MHz/10-bit	108MHz/12-bit
	HD Up-Conversion			• (1080p/1080i/720p)	-	-	-
	HD Enhancer			•	-	-	-
	Advanced Progressive Scan			•	•	•	•
	Digital Noise Reduction			•	•	-	•
CONV-ENIENCE	Viera Link			•(HDAVI Control)	-	-	-
INPUT/OUTPUT	HDMI Terminal			•	-	-	-
	Component Video Out (Y, PB, PR)[8]			•	•	•	-
	S-Video Out			•	•	•	-
	Video Out			•	•	•	•
	2ch Audio Out			•	•	•	•
	Digital Audio Out			• (1 coaxial)	• (1 coaxial)	• (1 coaxial)	-

*1 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. DivX®, DivX® Certified, and associated logos are trademarks of DivX®, Inc. and are used under license. About DivX®: DivX® is a popular media technology created by DivX®, Inc. DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size. *2 For content recorded on CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs. 3 You can play MPEG4 data (conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system) recorded with the Panasonic SD multi cameras or DVD Recorders on to CD-R/RW or DVD-RAM.This product is licensed under the MPEG-4 Visual patent portfolio license for the personal and non-commercial use of a consumer for (i) encoding video in compliance with the MPEG-4 Visual Standard ("MPEG-4 Video") and/or (ii) decoding MPEG-4 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed by MPEG LA to provide MPEG-4 Video. No license is granted or shall be implied for any other use. Additional information including that relating to promotional, internal and commercial uses and licensing may be obtained from MPEG LA,LLC. See http://www.mpegla.com. *4 Discs recorded and finalised on DVD video recorders/cameras. 5 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording. 6 Disc that cannot be played. *7 Chaoji MCD available on the market including CPD, DVCD and SVCD that do not conform to IEC62107.7 NORMAL, CINEMA1, CINEMA2, ANIMATION, DYNAMIC 8 Switchable 9 Supports DivX®.

Panasonic home theatre systems are great for watching movies, but that's only where the fun begins. They also come equipped to deliver exceptional sound quality from portable audio players and USB devices. You'll love the wireless freedom of our home theatre systems as well. The SC-PT850W and SC-PT550 allow a wireless connection* between the main unit and surround speakers, so there are fewer cables to deal with, setup is easier, and the room looks neater and less cluttered.

* The SH-FX65 is required for wireless connection of the SC-PT550 and SC-PT450.

SC-PT850W

1. Rear Wireless Receiver Kit Included
2. Panasonic Plasma TV Matching — HDMI & VIERA Link
3. High Quality Picture & Sound — 1080p Up-Conversion & High Power 1200W

Home Theatre Receiver
- Home Theatre Mode: Total Output Power of 1200W (RMS)
- Digital Amplifier
- Surround Enhancer
- Centre Focus
- Super Surround (Movie, Music)
- EQ (Flat, Heavy, Clear, Soft)
- 4-Step Subwoofer Level Control (1, 2, 3, 4) Via Remote Control (Subwoofer Level Key)
- Auto Speaker Setup for Quick and Easy Speaker Setting
- Quartz-Synthesised Digital Tuning System
- AV Remote Control

DVD Features
- Built-in Dolby Digital & DTS Decoder
- Dolby Pro Logic II
- Auto Dolby Pro Logic II/ Super Surround Switching (DPL II for Disc Media /Super Surround except for Disc Media)
- Dialogue Enhancer
- Advanced Progressive Scan* (PAL/NTSC) (4:4:4 Signal Processing/4:3 Shrink Function/Letterbox Zoom & Shift)

* To enjoy a progressive scan picture, a TV with progressive scan capabilities must be used.

- Cinema Mode
- Variable Zoom
- Multi-Format Playback (DVD-Video, DVD-RAM, DVD-RW[1], DVD-R[1], DVD-R (Dual Layer)[1], +R[1], +R (Double Layer)[1], +RW[1], SVCD[2], Video CD, CD, CD-R/RW[3], HighMAT (Level 2), WMA, MP3[4], JPEG, MPEG4[5] and DivX®[6])
- Monitor Selector for optimum picture quality according to monitor type
- 108MHz/12-bit Video D/A Converter

Input/ Output
- 1 HDMI Terminal (VIERA Link)
- 1 Digital Input (Optical)
- 1 Component Video Out
- 1 Video Out
- USB Terminal for MP3, WMA, JPEG and MPEG4 Playback
- Front Music Port for Portable Audio Player (M3)
- 1 Audio Input for AUX

Speaker System
- 4 Tower Speakers + 1 Centre Speaker
- Wall Mounting Holes

Front & Surround:
- Tower Speaker (Wall-Mountable)
- 3-Way Placement (Floor / Shelf / Wall Mounting)
- 6.5cm Full range Speaker

Centre:
- 6.5cm Full range Speaker x 2
- Magnetic Shielding for Home Theatre Use

Subwoofer:
- 16cm Woofer

1 Discs recorded and finalised on DVD video recorders/cameras.
2 Disc that cannot be played: "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.
3 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording.
4 For contents recorded on CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs.
5 You can play MPEG4 data [conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system] recorded with the Panasonic SD multi cameras or DVD Recorders.
6 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. DivX®, DivX® Certified, and associated logos are trademarks of DivX®, Inc. and are used under license.
About DivX®: DivX® is a popular media technology created by DivX®, Inc. DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size.

SC-PT550

1. Panasonic Plasma TV Matching — HDMI & VIERA Link
2. High Quality Picture & Sound — 1080p Up-Conversion & High Power 1000W
3. Wireless Ready Allows You to Upgrade to Rear Wireless Speakers

Home Theatre Receiver
- Home Theatre Mode: Total Output Power of 1000W (RMS)
- Digital Amplifier
- Surround Enhancer
- Centre Focus
- Super Surround (Movie, Music)
- EQ (Flat, Heavy, Clear, Soft)
- 4-StepSubwoofer Level Control (1, 2, 3, 4) Via Remote Control (Subwoofer Level Key)
- Auto Speaker setup for Quick and Easy Speaker Setting
- Quartz-Synthesised Digital Tuning System(FM only)
- AV Remote Control

DVD Features
- Built-in Dolby Digital & DTS Decoder
- Dolby Pro Logic II
- Auto Dolby Pro Logic II/ Super Surround Switching (DPL II for Disc Media /Super Surround except for Disc Media)
- Dialogue Enhancer
- Advanced Progressive Scan* (PAL/NTSC) (4:4:4 Signal Processing/4:3 Shrink Function/Letterbox Zoom & Shift) * To enjoy a progressive scan picture, a TV with progressive scan capabilities must be used.
- Cinema Mode
- Variable Zoom
- Multi-Format Playback (DVD-Video, DVD-RAM, DVD-RW[1],DVD-R[1], DVD-R (Dual Layer)[1], +R[1], +R (Double Layer)[1], +RW[1], SVCD[2], Video CD, CD, CD-R/RW[3], HighMAT (Level 2), WMA, MP3[4], JPEG, MPEG4[5] and DivX®[6])
- Monitor Selector for optimum picture quality according to monitor type
- 108MHz/12-bit Video D/A Converter

Input/ Output
- 1 HDMI Terminal (VIERA Link)
- 1 Digital Input (Optical)
- 1 Component Video Out
- 1 Video Out
- USB Terminal for MP3, WMA, JPEG and MPEG4 Playback
- Front Music Port for Portable Audio Player (M3)
- 1 Audio Input for AUX

Speaker System
- 2 Tower Speakers + 1 Centre Speaker + 2 Compact Speakers
- Wall Mounting Holes

Front
- Tower Speaker (Wall-Mountable)
- 3-Way Placement (Floor / Shelf / Wall Mounting)
- 6.5cm Full range Speaker

Centre
- 6.5cm Full range Speaker x 2
- Magnetic Shielding for Home Theatre Use

Subwoofer
- 16cm Woofer

Surround
- 6.5cm Full range Speaker

SC-PT450

1. Panasonic Plasma TV Matching — HDMI & VIERA Link
2. High Quality Picture & Sound — 1080p Up-conversion & High Power 1000W
3. Wireless Ready Allows You to Upgrade to Rear Wireless Speakers

Home Theatre Receiver
- Home Theatre Mode: Total Output Power of 1000W (RMS)
- Digital Amplifier
- Surround Enhancer
- Centre Focus
- Super Surround (Movie, Music)
- EQ (Flat, Heavy, Clear, Soft)
- 4-Step Subwoofer Level Control (1, 2, 3, 4) Via Remote Control (Subwoofer Level Key)
- Quartz-Synthesised Digital Tuning System
- AV Remote Control

DVD Features
- Built-in Dolby Digital & DTS Decoder
- Dolby Pro Logic II
- Auto Dolby Pro Logic II/ Super Surround Switching (DPL II for Disc Media /Super Surround except for Disc Media)
- Dialogue Enhancer
- Advanced Progressive Scan* (PAL/NTSC) (4:4:4 Signal Processing/4:3 Shrink Function/Letterbox Zoom & Shift)

* To enjoy a progressive scan picture, a TV with progressive scan capabilities must be used.
- Cinema Mode
- Variable Zoom
- Multi-Format Playback (DVD-Video, DVD-RAM, DVD-RW[1], DVD-R[1], DVD-R (Dual Layer)[1], +R[1], +R (Double Layer)[1], +RW[1], SVCD, Video CD, CD, CD-R/RW [2], HighMAT (Level 2), WMA, MP3[3] and JPEG)
- Monitor Selector for optimum picture quality according to monitor type
- 108MHz/12-bit Video D/A Converter

Input/ Output
- 1 HDMI Terminal (VIERA Link)
- 1 Component Video Out
- 1 Video Terminal
- Front Music Port for Portable Audio Player (M3)
- 1 Audio Input for AUX

Speaker System
- 5 Compact Speakers
- Wall Mounting Holes

Front
- 6.5cm Full range Speaker
- Magnetic Shielding for Home Theatre Use

Centre
- 6.5cm Full range Speaker x 2
- Magnetic Shielding for Home Theatre Use

Surround
- 6.5cm Full range Speaker

Subwoofer
- 16cm Woofer

1 Discs recorded and finalised on DVD video recorders/cameras.
2 Disc that cannot be played: "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.
3 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording.
4 For contents recorded on CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs.
5 You can play MPEG4 data (conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system) recorded with the Panasonic SD multi cameras or DVD Recorders.
6 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. DivX®, DivX® Certified, and associated logos are trademarks of DivX®, Inc. and are used under license. About DivX®: DivX® is a popular media technology created by DivX®, Inc. DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size.

SC-HT65

1. Full HD 1080p Signal Transfer
2. Enjoy Additional Inter-Operability with Panasonic Products which have Viera Link* (HDAVI Control)
3. Wireless Ready allows you to upgrade to Rear Wireless Speakers

1000W (RMS)

Home Theatre Receiver
- Home Theatre Mode: Total Output Power of 1000W (RMS)
  Front: 125W x 2 (1kHz, 3 ohms, 10% THD)
  Centre: 250W (1kHz, 3 ohms, 10% THD)
  Surround: 125W x 2 (1kHz, 3 ohms, 10% THD)
  Subwoofer: 250W (100Hz, 6 ohms, 10% THD)
- 5.1ch Digital Amplifier
- Built-in Dolby Digital® & DTS® Decoder
- Dolby® Pro Logic® II
- Centre Focus
- Sound Field Control (Music - Live, Pop/Rock, Vocal, Jazz, Dance, Party. Movie - Drama, Action, Sports, Musical, Game, Mono)
- Auto Speaker Set Up for Quick and Easy Speaker Setting
- Large Speaker Terminals for All Channels
- Subwoofer Output for Extended Bass Reproduction
- RDS
- Quartz-Synthesised Digital Tuning System
- AV Remote Control Commands Panasonic TVs, DVD Players and DVD Recorders

Input/Output
- HDMI Terminals (2-In, 1-Out, Viera Link)
- 3 Audio Inputs
- 3 Digital Inputs (2 Optical, 1 Coaxial)

Speaker System
- 2 Tower Speakers + 1 Centre Speaker & 2 Satellite Speakers
- Wall Mounting Holes

Front:
- Tower Speaker (Wall Mountable)
- 3-Way Placement (Floor/Shelf/Wall Mounting)
- 6.5cm Full Range Speaker

Centre:
- 6.5cm Full Range Speaker x 2
- Magnetic Shielding for Home Theatre Use

Surround:
- 6.5cm Full Range Speaker

Subwoofer
- Passive Subwoofer
- 16cm Woofer

AVAILABLE NOVEMBER 2007

* VIERA Link is a Panasonic distinctive name for the function of HADAVI Control
Not all 2007 VIERA Link features are compatible with all 2006 VIERA Link products.

SH-FX65

1. Provides Wireless Rear Audio with a Wireless-ready Home Theatre
2. High-Power Home Theatre Sound
3. Easy-to set-up Compact Receiver

Digital Transceiver Unit
- Output Power: 125W x 2 (Home Theatre Mode)
- Digital Amplifier
- Speaker Jacks for Left Surround/ Right Surround
- ID Set Switch

Digital Transceiver Card
- Easy-Insert Adaptor Terminals
- Frequency: 2.4GHz

Panasonic – Making Products with the Environment in Mind

As well as implementing measures to develop energy-saving designs, Panasonic is taking positive steps to thoroughly comply with the RoHS and WEEE Directives. This is all part of a multifaceted approach to the manufacture of environment-friendly products.

RoHS

Eliminating the RoHS Substance Usage

Panasonic is eliminating the use of the six substances specified in the RoHS Directive of the European Union. This measure has been implemented prior to the date on which the Directive takes effect.

The RoHS Directive
Officially called the "Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment," the RoHS Directive bans the use of six substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenals (pbb), and polybrominated diphenyl ethers (pbde), and takes effect in July 2006.

Disposal for Users of WEEE (Waste Electrical & Electronic Equipment)

In compliance with the WEEE Directive, to promote efficient, low-cost recycling, Panasonic has agreed to cooperate with recycling with other manufactures. We have also established the recycling management company "Ecology Net Europe" as an agent for distribution and recycling companies. Taking advantage of our considerable recycling experiences, this new company is ready to offer a range of innovative recycling solutions.
This symbol on products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.
The WEEE Directive applies to all Panasonic products, which are designed with the environment in mind to enable recycling.

Energy-Saving Design for DIGA DVD Recorder

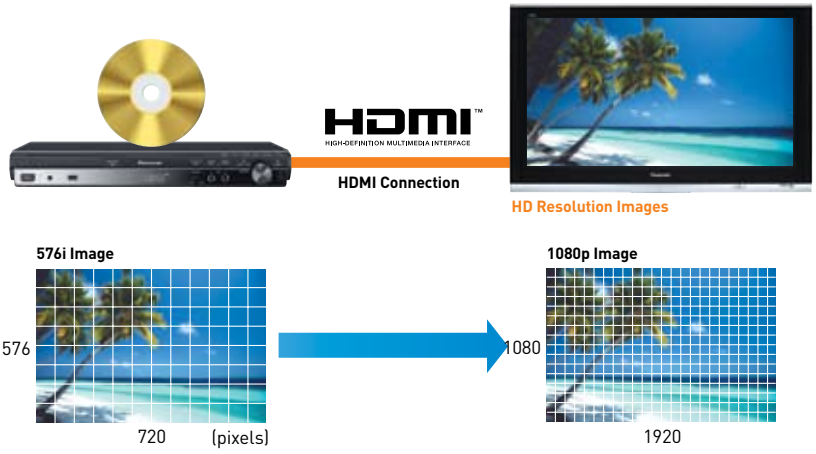
Panasonic combined advanced nanotechnology with its extensive system technology capabilities to develop a new system LSI. The result is higherspeed and lower electricity consumption. The key to this energy-saving designlies in low energy consumption during standby, which is 50% of that inconventional models, a feature that is also enviroment-friendly.

HIGH QUALITY PICTURE

1080p Up-Conversion

Panasonic DVD home theatre products feature a 1080p up-conversion function that converts standard-definition (720 x 576 pixels) images from DVD sources to high-definition (1920 x 1080 pixels) images. These up-converted signals draw out the maximum performance of an HDMI-compatible 1080p HD Display, giving you vivid, sharp and exceptionally detailed high-resolution images to enjoy.

1080p Up-Conversion



EASY & SIMPLE SETUP

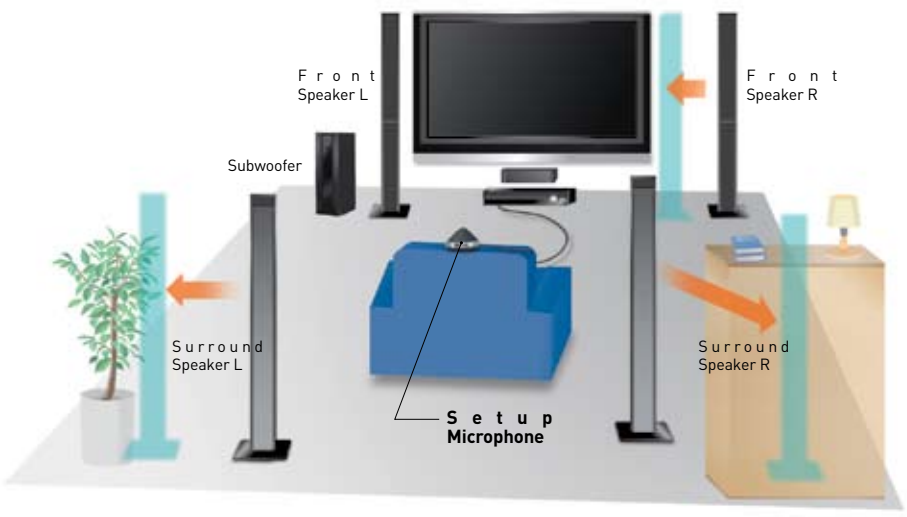
Wireless

With a conventional home theatre system there are a lot of wires to worry about. To connect the rear speakers you might have to run the cables under the carpet or along the base of the walls so people don't trip over them. And all those cables aren't very pretty to look at. You can solve this problem with the Wireless Rear Speaker Kit*.
The system transmits the audio signals by radio waves, so there's no need to run cables from the main unit to the rear speakers. The signal also isn't interrupted by people walking through the room or blocked by furniture.

* Wireless rear speaker kit is included in the SC-PT850W.
The SH-FX65 is required for wireless connection of the SC-PT550, SC-PT450 and SC-HT65.Transmission distance is limited. Performance will vary depending on room size and other conditions.

Auto Speaker Setup

Auto Speaker Setup configures time-consuming speaker settings quickly and easily. Simply connect the speaker setup microphone, place it at your usual listening position and press and hold the Test button on the remote control to start the automatic setup. This function detects distances and sets the most suitable output sound level. The Panasonic home theatre takes care of everything, and creates the optimal listening environment for your room.



NETWORK ENTERTAINMENT

Music/Video Expansion Network

Panasonic home theatre systems come fully equipped to deliver exceptional quality from all your favorite music and video sources, such as MP3, WMA, MPEG4 and JPEG data. You can listen to music through the high-quality home theater components by connecting a portable audio player to the music port, and you can enjoy music, still images and movies in the same manner by connecting a USB device to the USB terminal on the front panel of the main unit.

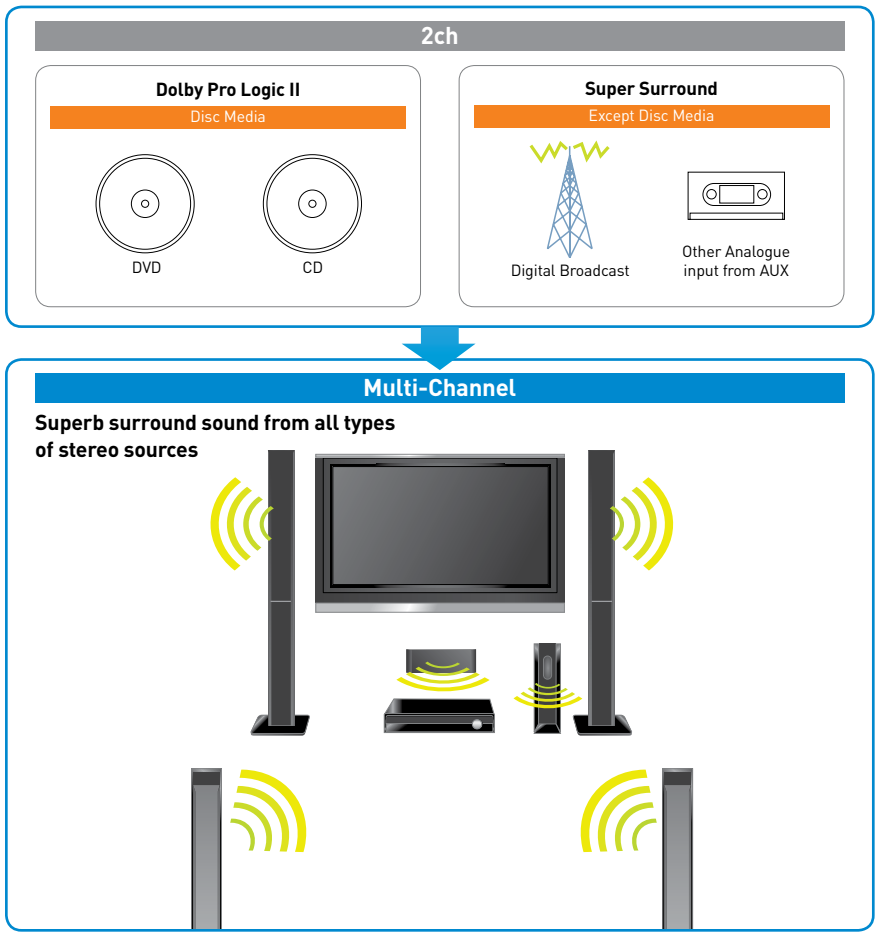
USB

music port
for Digital Audio Players

SURROUND SOUND ENTERTAINMENT

Auto Dolby Pro Logic II/Super Surround Switching

In new Panasonic home theatre systems, it's now easier to use both Dolby Pro Logic II and Super Surround – functions that create a multi-channel sound effect from disc media and other sources. One button is all it takes. Simply press the DPL II/S.SRD button on the remote control and the system recognises whether the source is a disc or not. It then chooses Dolby Pro Logic II or Super Surround accordingly, and creates an awesome multi-channel surround effect. Depending on the source, you can also select the acoustic mode from the movie and music modes. It's never been easier to enjoy superb surround sound from all types of stereo sources.



SC-VK860

1. Powerful Sound with 2 x Twin Advanced cone Subwoofer System, 660W RMS)
2. Easy Connect to DAP with Music Port and USB Plug and Play
3. Multi-Format Playback including DivX®[1]

660W(RMS)

Amp Section
- Surround Enhancer
- Super Sound EQ for Dynamic Sound at the Touch of a Button
- Preset EQ (Heavy, Clear, Soft, Disco, Live, Hall)
- Manual EQ
- Super Surround Sound (Music, Movie, Party)
- Subwoofer Level Control
- Spectrum Analyser FL Display
- Energy Saving: Low Standby Power Consumption
- Programmable Timer (PLAY/REC/SLEEP) and Clock Function
- Panasonic TV Control
- Wireless Full Remote Control

DVD/VCD/CD Changer Section
- Easy-to-Use 5 Disc Changer with "Play 1, Change 4", Disc Checking
- Advanced Progressive Scan* (NTSC/PAL) (4:4:4 Signal Processing/4:3 Shrink Function/Letterbox Zoom & Shift)

* To enjoy a progressive scan picture, a TV with progressive scan capabilities must be used.
- Built-in Dolby Digital & DTS Decoder
- Dolby Pro Logic II
- Sound Enhancement
- Multi-Format Playback (DVD-Video, DVD-RAM, DVD-RW[2], DVD-R[2], DVD-R (Dual Layer)[2], +R[2], +R (Double Layer)[2], +RW[2], SVCD[6], Video CD, CD, CD-R/RW[3], HighMAT (Level 2), WMA, MP3[4], JPEG, MPEG4[5], and DivX®[1])
- 4:3 TV Zoom
- 108MHz/12-bit Video D/A Converter
- Cinema Mode
- Dialogue Enhancer
- Monitor Selector

Cassette Deck Section
- Feather Touch Dual Deck with 1 Side Auto Reverse

Tuner Section
- Digital Synthesiser Tuner
- 35 Stations (20FM/15-AM) Preset Memory

Input / Output
- 1 Component Video Out
- 1 Video Out
- USB Terminal for MP3, WMA, JPEG4 and MPEG4 Playback
- Front Music Port for Portable Audio Player (M3)
- 1 Audio Input for AUX

Speaker System

Front
- 20cm Woofer and 12cm Full Range and 2.5cm Titanium Dome Tweeter
- Magnetic Shielding for Home Theatre Use

Centre
- 8cm Full Range x 2 and Super Tweeter
- Magnetic Shielding for Home Theatre Use

Surround
- 8cm Full Range x 2 and Super Tweeter

Subwoofer
- Twin 16cm Embossing Aluminum Cone Subwoofer

1 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. DivX®, DivX® Certified, and associated logos are trademarks of DivX®, Inc. and are used under license.
About DivX®: DivX® is a popular media technology created by DivX®, Inc. DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size.
2 Discs recorded and finalised on DVD video recorders/cameras.3 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording.4 For contents recorded on CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs.
5 You can play MPEG4 data (conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system) recorded with the Panasonic SD multi cameras or DVD Recorders.6 Disc that cannot be played: "Chaoji VCD" available on the market including CVD, DCVD, and SVCD, that do not conform to IEC62107. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories."DTS" is a trademarks of Digital Theater Systems, Inc.

SC-VK660

1. Powerful Bass Sound with External Subwoofer (2.1ch), 345W (RMS)
2. Easy-to-use 5-Disc Changer with Play 1, Change 4
3. Multi-Format Playback including DivX®[1]

Amp Section
- Super Sound EQ for Dynamic Sound at the Touch of a Button
- Preset EQ (Heavy, Clear, Soft, Disco, Live, Hall)
- Manual EQ
- Advanced Surround
- Subwoofer Level Control
- Spectrum Analyser Level Meter FL Display
- Energy Saving: Low Standby Power Consumption
- Programmable Timer (PLAY/REC/SLEEP) and Clock Function
- Panasonic TV Control
- Wireless Full Remote Control

DVD/VCD/CD Changer Section
- Easy-to-Use 5 Disc Changer with "Play 1, Change 4", Disc Checking
- Advanced Progressive Scan* (NTSC/PAL) (4:4:4 Signal Processing/4:3 Shrink Function/Letterbox Zoom & Shift)

* To enjoy a progressive scan picture, a TV with progressive scan capabilities must be used.
- Built-in Dolby Digital & DTS Decoder for Front Speakers (2ch)
- Sound Enhancement
- Multi-Format Playback (DVD-Video, DVD-RAM, DVD-RW[2], DVD-R[2], DVD-R (Dual Layer)[2], +R[2], +R (Double Layer)[2], +RW[2], SVCD[6], Video CD, CD, CD-R/RW[3], HighMAT (Level 2), WMA, MP3[4], JPEG, MPEG4[5],and DivX®[1])
- 4:3 TV Zoom
- 108MHz/12-bit Video D/A Converter
- Cinema Mode
- Dialogue Enhancer
- Monitor Selector

Cassette Deck Section
- Feather Touch Dual Deck with 1 Side Auto Reverse

Tuner Section
- Digital Synthesiser Tuner
- 35 Stations (20-FM/15-AM) Preset Memory

Input / Output
- 1 Component Video Out
- 1 Video Out
- Front Music Port for Portable Audio Player (M3)
- 1 Digital Output (Coaxial)
- 1 Audio Input for AUX

Speaker System

Front
- 16cm Woofer and 6cm Tweeter and Super Tweeter
- Magnetic Shielding for Home Theatre Use

Subwoofer
- 16cm Subwoofer

345W(RMS)

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About DivX®: DivX® is a popular media technology created by DivX®, Inc. DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size.2 Discs recorded and finalized on DVD video recorders/cameras.3 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording.4 For contents recorded on CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs.5 You can play MPEG4 data (conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system) recorded with the Panasonic SD multi cameras or DVD Recorders.6 Disc that cannot be played: "Chaoji VCD" available on the market including CVD, DCVD, and SVCD, that do not conform to IEC62107. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories."DTS" is a trademarks of Digital Theater Systems, Inc.

COMPONENT HOME THEATRE: SPEAKER SYSTEM

Model Number			SA-XR59	SA-XR700
Power Output	Continuous Power Output (Both Ch. Driven)	DIN (1kHz, THD 1%) 20Hz - 20kHz, THD 0.09%	125W x 2 (4ohms) 80W x 2 (6ohms)	145W x 2 (4ohms) 80W x 2 (6ohms)
	Power Output at 1kHz Each Ch. Driven	Front (L/R)	100W x 2 (6ohms, THD 1%)	100W x 2 (6ohms, THD 1%)
		Centre	100W (6ohms, THD 1%)	100W (6ohms, THD 1%)
		Surround (L/R)	100W x 2 (6ohms, THD 1 %)	100W x 2 (6ohms, THD 1 %)
		Surround Back (L/R)	100W x 2 (6ohms, THD 1%)	100W x 2 (6ohms, THD 1%)
Power Bandwidth			4Hz-88kHz (6 ohms, THD 0.9%)	4Hz-88kHz (6 ohms, THD 0.9%)
Total Harmonic Distortion			0.09 % (6 ohms) (Rated Power at 20Hz-20kHz)	0.09 % (6 ohms) (Rated Power at 20Hz-20kHz)
Frequency Response		Input[1]	4Hz-88kHz, ±3dB	4Hz-88kHz, ±3dB
		DVD6CH	4Hz-44kHz, ±3dB	4Hz-44kHz, ±3dB
S/N Ratio at Rated Power (6 ohms)		Digital Input	90dB (103dB, IHF A)	90dB (103dB, IHF A)
FM Frequency Response			87.50 -108.00MHz	87.50 -108.00MHz
AM Frequency Response		9kHz steps	522 - 1611kHz	522 - 1611kHz
		10kHz steps	530 - 1620kHz	530 - 1620kHz
Dolby Digital Decoder			• (EX)	• (EX)
Dolby Pro Logic			• (IIx)	• (IIx)
DTS Decoder			• (ES/Neo:6)	• (ES/Neo:6)
DTS 96/24 Decoder			•	•
VIERA Link			•	•
HDMI Inputs/ Outputs			2-in, 1-out	2-in, 1-out (HDAVI Control)
Component Video Inputs/ Outputs			2-in, 1-out	2-in, 1-out
S-Video Inputs/Outputs			4-in, 1-out	4-in, 1-out
Video Inputs/Outputs			5-in, 1-out	5-in, 1-out
Digital Inputs			4 (2-optical, 2-coaxial)	4 (2-optical, 2-coaxial)
6-ch Discrete Inputs			•	•
Audio Inputs/Outputs			6-in	6-in
Subwoofer Output			•	•
Digital Synthesiser Tuner			•	•
Remote Control			•	•
Weight (kg)			4.7	5.3
Dimensions (W x H x D) (mm)			430 x 107.5 x 390	430 x 107.5 x 390

[1] CD, TV/STB, BD/DVD, DVD-RECORDER, VCR, AUX * Notes:Total harmonic distortion is measured by digital spectrum analyser.
Design and specifications subject to change without notice.

•	YES
-	NO

HOME THEATRE: WIRELESS SPEAKER KIT

Model Number		SH-FX65
Receiver Unit	Power Output	125W x 2 (1kHz, 3ohms, 10% THD)
	Speaker Jack	2
	Weight (lb.)	1.54
	Dimensions (W x H x D)	6-1/2" x 3-17/32" x 6-15/32"
Transmitter Unit	Transmission Method	Digital
	Frequency	2.400-2.4835GHz
	Weight (lb.)	0.04
SPeaker	Dimensions (W x H x D)	2-9/16" x 2-1/16" x 11/32"
	Type	-

Design and specifications subject to change without notice.

BLU RAY DISC PLAYER

Model Number			DMP-BD10A
Format	Playable Type		
	BD-ROM	BD Video	•
	DVD-RAM	DVD-VR	•
		JPEG	•
		AVCHD(H.264)	•
	DVD-R*1/DVD-RW*1/DVD-R DL*1	DVD Video	•
		JPEG	•
		AVCHD (H.264)	•
	+R*1/+R DL*1/+RW*1	Video	•
	CD, CD-R/-RW*2	CDDA	•
		Video CD	•
		SVCD*3	•
		MP3*4	•
		JPEG	•
Video	P4HD (Pixel Precision Progressive Processing for HD)		•
	Precise Pixel Generation		•
	16-Level Motion Detection with Pixel-Based Motion Adaptive		•
	Diagonal Processing		•
	3:2/2:2 Pull-Down Progressive Processing		• (2:2 Pull-Down: DVD Only)
	i/p Conversion for 1080p*5 Playback		•
	Up Conversion for 1080p*5 Playback		•
	Video D/A Converter		297MHz/14bit
	HD i/p Conversion		•
	Progressive Scan		• (PAL/NTSC)
	Digital Noise Reduction		•
	Picture Mode (Normal/Soft/Fine/Cinema/User)		•
	Picture Adjustment		•*6
	NTSC Output Selectable		•
Audio	Audio D/A Converter		192kHz/24bit
	Virtual Battery Operation		•
	Dolby Digital Plus Decoder		•
	Dolby True HD Decoder		•
	DTS/DTS-HD High Resolution Audio Decoder		•
	Re-Master for DVD/CD		•
	Advanced Surround (V.S.S.)		• (DVD)
	Dialogue Enhancer		•
	Dynamic Range Compression		•
Convenient	VIERA Link (HDAVI Control 2)		•
	Super Hi Speed Scan		•(x200)
	Audio/JPEG Navigation Menu		•
	Triple Laser Pickup		•
Input/Output	HDMI		•
	Scart Terminal (RGB Output)		•
	Component Video Out (Y, PB, PR)		•
	S-Video Out		•
	Video Out		•
	7.1ch Audio Out		•
	2ch Audio Out		•(x2)
	Digital Audio Out		• 1 optical, 1 coaxial)
Specification	Audio S/N		125dB
	Dynamic Range		118dB
	Power Source		AC 230V, 50Hz
	Power Consumption		42W
	Weight (kg)		4.5
	Dimensions (W x H x D) (mm)		430 x 85 x 331.6

1 Discs recorded and finalised on DVD video recorders/cameras.
2 Playability may vary depending on the content, discs and quality of the recording.
3 Disc that cannot be played "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.
4 For contents recorded on CD-R/RW for your personal use only.
5 HDMI connection required.
6 Brightness, Colour, Contrast, Sharpness, Gamma Correction.

Dolby and the double-D symbol are registered trademarks of Dolby Laboratories."DTS" is a trademarks of Digital Theater Systems, Inc.
Specifications are subject to change without notice.

•	YES
–	NO

DVD PLAYERS

Model Number			DVD-S53	
Format	Playable Type			
	DVD	DVD-Video	•	
		DivX®1	•	
	DVD-RAM	DVD-VR	•	
		MP32	•	
		JPEG	•	
		MPEG43	•	
		DivX®1	•	
	DVD-R4/-RW4	DVD Video	•	
		DVD-VR	•	
		MP32	•	
		JPEG	•	
		MPEG43	•	
		DivX®1	•	
	DVD-R (DL)4	DVD-Video	•	
	+R4/ +R (DL)4/ +RW4	Video	•	
	CD, CD-R/RW5	CD-DA	•	
		Video CD	•	
		SVCD6	•	
		WMA	•	
		MP32	•	
		JPEG	•	
		MPEG43	•	
		DivX®1	•	
	Television Signal System		PAL 625/50, PAL 525/60, NTSC	PAL 62
Video	Video D/A Converter		• 108MHz/12-bit	
	HD Up-Conversion		(1080p/1080i/720p)	
	HD Enhancer		•	
	Advanced Progressive Scan		•	
	Variable Zoom		• (x2, x4,Auto)	
	Digital Noise Reduction		•	
	Picture Mode		•7	
	Soft Skin Detail		•	
	Monitor Selector		•	
	NTSC Output Selectable		•	
Audio	Audio D/A Converter		192kHz/24bit	
	Audio Re-master		•	
	TV Delay		•	
	Dolby True HD Decoder		• (2ch)	
	Dolby DIgital Decoder		• (2ch)	
	DTS Decoder		•	
	Advanced Surround (V.S.S.)		•	
	Dialogue Enhancer		•	
	Dynamic Range Compression		•	
Convenient	VIERA Link		• (HDAVI Control)	
	DVD-RAM Speed Control Playback		•	
	Direct Navigator/ Playlist Playback (DVD-RAM)		•	
	Slow & Fast Audio Playback (DVD-RAM/ DVD-Video)		•	
	Hi Speed Search		•(x64)	
	Quick OSD (Progress Indicator Included)		•	
	Manual Skip		•	
	Quick Replay		•	
	Audio/JPEG Navigation Menu		•	
Input/Output	HDMI Terminal		•	
	Component Video Out (Y, PB, PR)		•8	
	S-Video Out		•	
	Video Out		•	
	2ch Audio Out		•	
	Digital Audio Out		• (1 coaxial)	
Specifications	Horizontal Resolution		More than 500 lines	M
	Video S/N		More than 65dB	
	Audio S/N		115dB	
	Dynamic Range	DVD-Video (LPCM)	100dB	
		CD	98dB	
	Power Source		AC 230V-240V, 50Hz	A
	Power Consumption		10W	
	Weight (kg)		2.0 (approx)	
	Dimensions (W x H x D) (mm)		430 x 43 x 239	

1 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. DivX®, DivX® Certified, and associated logos are trademarks of DivX®, In
About DivX®: DivX® is a popular media technology created by DivX®, Inc. DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size.2 For content
from CDs for personal use. Playability may vary depending on conditions and discs.3 You can play MPEG4 data (conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.72
the Panasonic SD multi cameras or DVD Recorders on to CD-R/RW or DVD-RAM.This product is licensed under the MPEG-4 Visual patent portfolio license for the personal and non-commercial use of a con
compliance with the MPEG-4 Visual Standard ("MPEG-4 Video") and/or (ii) decoding MPEG-4 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained fro
MPEG LA to provide MPEG-4 Video. No license is granted or shall be implied for any other use. Additional information including that relating to promotional, internal and commercial uses and licensing may b
See http://www.mpegla.com.4 Discs recorded and finalised on DVD video recorders/cameras. 5 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-
recording. 6 Disc that cannot be played: "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107. 7 NORMAL, CINEMA1, CINEMA2, ANIMATION, DYNAMIC 8 Switc

DVD-S33	DVD-F87	DVD-LS80
•	•	•
•	-	•
-	-	•
-	•	•
-	•	•
-	-	•
-	-	•
-	• (-R only)	•
•	-	•
•	• (-R only)	•
•	• (-R only)	•
•	-	•
•	-	•
•	•	•
•	-	•
•	-	•
•	-	•
•	-	•
•	•	•
•	•	•
•	•	•
•	-	•
•	-	•
25/50, PAL 525/60, NTSC	PAL 625/50, PAL 525/60, NTSC	PAL/PAL60 (NTSC) Selectable
• 108MHz/12-bit	• 54MHz/10-bit	• 108MHz/12-bit
-	-	-
-	-	-
•	•	•
• (x2, x4,Auto)	•	•
•	-	•
•7	•7	•7
•	-	•
•	•	-
•	-	•
96kHz/24bit	192kHz/24bit	96kHz/24bit
•	•	•
•	•	-
• (2ch)	-	-
• (2ch)	•	• (2ch)
•	•	• (2ch)
•	•	•
•	•	•
•	•	•
-	-	-
-	•	•
-	•	•
•(DVD-Video Only)	•	-
•(x64)	•(x200)	•(x200)
•	-	-
•	-	-
•	•	-
•	•	•
-	-	-
•8	•8	--
•	•	-
•	•	•
•	•	•
• (1 coaxial)	• (1 coaxial)	-
More than 500 lines	More than 500 lines	More than 500 lines
More than 65dB	More than 65dB	60dB
115dB	115dB	115dB
92dB	102dB	92dB
90dB	98dB	92dB
AC 230V-240V, 50Hz	AC 230V-240V, 50Hz	AC 100V-240V, 50Hz
9W	10W	14W
2.0 (approx)	8.9 (approx)	1.032 (with battery)
430 x 43 x 263	430 x 68 x 412.9	242.60 x 46.6 x 173.50

nc. and are used under license.
s recorded on CD-R/RW media
26 audio system] recorded with
nsumer for (i) encoding video in
om a video provider licensed by
e obtained from MPEG LA,LLC.
-RW due to the condition of the
hable

•	YES
-	NO

DVD MINI SYSTEM

Model Number			SC-VK860	SC-VK660
Format	Playable Type	DVD-Video	•	•
		DVD-RAM/-RW[1]/-R [DL][1]	•	•
		+R[1]/+RW[1]/+RW [DL][1]	•	•
		SVCD[2]	•	•
		Video CD	•	•
		CD-R/RW[3]	•	•
		HighMAT [Level 2]	•	•
		WMA	•	•
		MP3[4]	•	•
		JPEG	•	•
		MPEG4[5]	•	•
		DivX®[6]	•	•
	Television Signal System			
	RMS Power Output		660W	345W
	Centre focus		•	-
	Advance Surround		-	•
	Super Surround Sound		•	-
	Super Sound EQ		•	•
	Preset EQ		• (Heavy, Clear, Soft, Disco, Live, Hall)	• (Heavy, Clear, Soft, Disco, Live, Hall)
	Manual EQ		•	•
DVD Section	Dolby Digital Decoder		•	• (2ch)
	Dolby Pro Logic II		•	-
	DTS Decoder		•	•(2ch + Digital Out)
	Dialogue Enhancer		•	•
	Progressive Scan		•	•
	Cinema Mode		•	•
	4:3 TV Zoom		•	•
	Monitor Select		•	•
	Video D/A Converter		108MHz/12-bit	108MHz/12-bit
Cassette Deck Section	Type		Feather Touch/ 1 Side Auto Reverse	Feather Touch/ 1 Side Auto Reverse
	Heads	Record/ Playback	Solid permalloy head	Solid permalloy head
		Erasure	Double gap ferrite head	Double gap ferrite head
	Wow & Flutter		0.18% [WRMS]	0.18% [WRMS]
	Fast Forward and Rewind Time		Approx. 120 sec. [C-60]	Approx. 120 sec. [C-60]
Tuner Section	FM Frequency Range		[FM] 87.50 – 108.00MHz [50kHz step]	[FM] 87.50 – 108.00MHz [50kHz step]
	AM Frequency Range		[AM] 522 – 1629kHz [9kHz step], 520 – 1630kHz [10kHz step]	[AM] 522 – 1629kHz [9kHz step], 520 – 1630kHz [10kHz step]
Input/Output	Component Video Out		•	•
	Video Out		•	•
	USB Terminal		• (for MP3[4], WMA, JPEG, MPEG4[5], DivX®[6] Playback)[7]	-
	Music Port		•	•
	Audio Input		•	•
	Digital Output		•	•
Dimensions (W X H X D)mm			250 x 330 x 334.6	250 x 330 x 333.6
Weight (kg)			5.5	7.5
Speaker System	Front Speaker	Configuration	3-way, 3-speaker, Bass-reflex	3-way, 3-speaker, Bass-reflex
		Full Range	12cm cone Type	-
		Woofer	20cm cone type	16cm cone type
		Tweeter	2.5cm titanium dome type	6cm cone type
		Super Tweeter	-	Piezo Type
		Weight (kg)	6.1	2.6
		Dimensions (W x H x D) (mm)	250 x 429.5 x 298.5	220 x 330 x 182
	Centre Speaker	Configuration	2-way, 3-speaker, Bass-reflex	-
		Full Range	8cm cone type x 2	-
		Super Tweeter	Piezo type	-
		Weight (kg)	1.4	-
		Dimensions (W x H x D) (mm)	330 x 104 x 94.5	-
	Surround Speaker	Configuration	2-way, 3-speaker, Bass-reflex	-
		Full Range	8cm cone type x 2	-
		Super Tweeter	Piezo type	-
		Weight (kg)	1.6	-
		Dimensions (W x H x D) (mm)	140 x 331 x 146.5	-
	Subwoofer Speaker	Configuration	Bass reflex	Bass reflex
		Woofer	16cm aluminum cone type x 2	16cm cone type
		Weight (kg)	6.1	3.7
		Dimensions (W x H x D) (mm)	200 x 429.5 x 359	220 x 330 x 303

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5 You can play MPEG4 data (conforming to SD VIDEO specifications [ASF standard]/MPEG4 [Simple Profile] video system/G.726 audio system] recorded with the Panasonic SD multi cameras or DVD Recorders.This product is licensed under the MPEG-4 Visual patent portfolio license for the personal and non-commercial use of a consumer for (i) encoding video in compliance with the MPEG-4 Visual Standard ["MPEG-4 Video"] and/or (ii) decoding MPEG-4 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed by MPEG LA to provide MPEG-4 Video. No license is granted or shall be implied for any other use. Additional information including that relating to promotional, internal and commercial uses and licensing may be obtained from MPEGLA,LLC. See http://www.mpegla.com.
6 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. DivX®, DivX® Certified, and associated logos are trademarks of DivX®, Inc. and are used under license.
About DivX® DivX® is a popular media technology created by DivX®, Inc. DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size. 7 MPEG4/DivX® can playback but not guarantee.
Design and specifications are subject to change without notice.

DVD HOME THEATRE: SOUND

Model Number			SC-PT850W	SC-PT550	SC-PT450	SC-HT65
Receiver Section	Power Output	Total Power	1200W	1000W	1000W	1000W
		Front	250W x 2 (1kHz, 6ohms, 10% THD)	125W x 2 (1kHz, 3ohms, 10% THD)	125W x 2 (1kHz, 3ohms, 10% THD)	125W x 2 (1kHz, 3ohms, 10% THD)
		Centre	250W (1kHz, 6ohms, 10% THD)	250W (1kHz, 6ohms, 10% THD)	250W (1kHz, 6ohms, 10% THD)	250W (1kHz, 6ohms, 10% THD)
		Surround	100W x 2 (1kHz, 4ohms, 10% THD)	125W x 2 (1kHz, 3ohms, 10% THD)	125W x 2 (1kHz, 3ohms, 10% THD)	125W x 2 (1kHz, 3ohms, 10% THD)
		Subwoofer	250W (100Hz, 6ohms, 10% THD)	250W (100Hz, 6ohms, 10% THD)	250W (100Hz, 6ohms, 10% THD)	250W (100Hz, 6ohms, 10% THD)
	Surround Enhancer		•	•	•	•
	Centre Focus		•	•	•	•
	Super Surround		•	•	•	-
	EQ		• (4 Preset)	• (4 Preset)	• (4 Preset)	• (Preset)
	Auto Speaker Setup		•	•	•	•
	Digital Synthesiser Tuner		• (FM only)	• (FM only)	• (FM only)	•
Receiver Section	Dolby Digital Decoder		•	•	•	•
	Dolby Pro Logic II		•	•	•	•
	Auto Dolby Pro Logic II/ Super Surround Switching		•	•	•	-
	VIERA Link		• (HDAVI Control 2)	• (HDAVI Control 2)	• (HDAVI Control 2)	• (HDAVI Control 2)
	Dialogue Enhancer		•	•	•	•
	1080p Up-Conversion with HDMI		•	•	•	-
	Progressive Scan (PAL/NTSC)		•	•	•	-
	Cinema Mode		•	•	•	-
	Variable Zoom		•	•	•	-
	Monitor Selector		•	•	•	-
	Video D/A Converter		108MHz/12-bit	108MHz/12-bit	108MHz/12-bit	-
Input/Output	HDMI Terminals		•	•	•	•
	Component Video Out		•	•	•	-
	Digital Input		• (Optical)	• (Optical)	-	• (2 Optical, 1 Coaxial)
	Audio Input		•	•	•	•(3)
	USB Terminal		• (for MP3, WMA, JPEG Playback)	• (for MP3, WMA, JPEG Playback)	• (for MP3, WMA, JPEG Playback)	-
	Music Port		•	•	•	-
Weight (kg)			3.5kg	3.5kg	3.5kg	4.1kg
Dimensions (W x H x D) (mm)			430 x 64.7 x 364.4	430 x 64.7 x 364.4	430 x 64.7 x 364.4	430 x 105 x 388
Speaker System	Wireless Rear		•	Ready*7	Ready*7	Ready*7
	Front Speaker	Configuration	Full Range, Bass-reflex	Full Range, Bass-reflex	Full Range, Bass-reflex	2way, 2-speaker, Bass-reflex
		Full range	6.5cm cone type	6.5cm cone type	6.5cm cone type	6.5cm cone type
		Weight (kg)	3.7kg	3.7kg	0.6kg	3.7kg
		Dimensions (W x H x D) (mm)	252 x 1123 x 235	252 x 1123 x 235	92 x 142 x 95	252 x 1123 x 235
	Centre Speaker	Configuration	2way, 2-speaker, Bass-reflex	2way, 2-speaker, Bass-reflex	2way, 2-speaker, Bass-reflex	2way, 2-speaker, Bass-reflex
		Full range	6.5cm cone type x 2	6.5cm cone type x 2	6.5cm cone type x 2	6.5cm cone type x 2
		Weight (kg)	1.3kg	1.3kg	1.3kg	1.3kg
		Dimensions (W x H x D) (mm)	270 x 94 x 95	270 x 94 x 95	270 x 94 x 95	270 x 94 x 95
	Surround Speaker	Configuration	Full Range, Bass-reflex	Full Range, Bass-reflex	Full Range, Bass-reflex	Full Range, Bass-reflex
		Full range	6.5cm cone type	6.5cm cone type	6.5cm cone type	6.5cm cone type
		Weight (kg)	3.7kg	0.6kg	0.6kg	0.6kg
		Dimensions (W x H x D) (mm)	252 x 1123 x 235	92 x 142 x 95	92 x 142 x 95	92 x 142 x 95
	Subwoofer Speaker	Configuration	Bass-reflex	Bass-reflex	Bass-reflex	Bass-reflex
		Full range	16cm cone type	16cm cone type	16cm cone type	16cm cone type
		Weight (kg)	3.7kg	0.6kg	0.6kg	3.7kg
		Dimensions (W x H x D) (mm)	153 x 415 x 257	153 x 415 x 257	153 x 415 x 257	153 x 415 x 257
Receiver Unit	Power Output		100W X 2			
	Weight (kg)		0.7			
	Dimensions (W x H x D) (mm)		165 x 90 x 164			

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6 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. DivX®, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license. About DivX® DivX® is a popular media technology created by DivX®, Inc. DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size.7 With the purchase of a SH-FX65.
* Notes:Total harmonic distortion is measured by digital spectrum analyser. Design and specifications subject to change without notice.

•	YES
-	NO

DVD RECORDERS

Model Number			DMR-EX87	DMR-EX77	DMR-EH57-K	DMR-EZ47V
Playable Discs	DVD	DVD-Video	•	•	•	•
	DVD-RAM	DVD-VR	•	•	•	•
		JPEG	•	•	-	-
	DVD-R[1]/DVD-R DL[1]/DVD-RW[1]	DVD Video	•	•	•	•
		DVD-VR	• DVD-RW only	• DVD-RW only	• DVD-RW only	• DVD-RW only
		DivX®[3]	• DVD-R, DVD-R DL	• DVD-R, DVD-R DL	• DVD-R, DVD-R DL	• DVD-R, DVD-R DL
	+R[1]/ +R DL[1]/ +RW[1]	Video	•	•	•	•
	CD, CD-R/RW[4]	CD-DA	•	•	•	•
		Video CD	•	•	•	•
		MP3[2]	•	•	•	•
		JPEG	•	•	•	•
		DivX®[3]	•	•	•	•
Recordable Discs	DVD-RAM	Ver 2.0/Ver 2.1/Ver 2.2	• 2x Speed/ • 2-3x Speed/ • 2-5x Speed	• 2x Speed/ • 2-3x Speed/ • 2-5x Speed	• 2x Speed/ • 2-3x Speed/ • 2-5x Speed	• 2x Speed/ • 2-3x Speed/ • 2-5x Speed
	DVD-R	Ver 2.0/Ver 2.0/Ver 2.0/Ver 2.1	•1x Speed/ • 1-4x Speed/ • 1-8x Speed/ • 1-16x Speed	•1x Speed/ • 1-4x Speed/ • 1-8x Speed/ • 1-16x Speed	•1x Speed/ • 1-4x Speed/ • 1-8x Speed/ • 1-16x Speed	•1x Speed/ • 1-4x Speed/ • 1-8x Speed/ • 1-16x Speed
	DVD-R DL	Ver 3.0/Ver 3.0	• 2-4x Speed/ • 2-8x Speed	• 2-4x Speed/ • 2-8x Speed	• 2-4x Speed/ • 2-8x Speed	• 2-4x Speed/ • 2-8x Speed
	DVD-RW	Ver 1.1/Ver 1.1/Ver 1.2/Ver 1.2	• 1x Speed/ • 1-2x Speed/ • 2-4x Speed/ • 2-6x Speed	• 1x Speed/ • 1-2x Speed/ • 2-4x Speed/ • 2-6x Speed	• 1x Speed/ • 1-2x Speed/ • 2-4x Speed/ • 2-6x Speed	• 1x Speed/ • 1-2x Speed/ • 2-4x Speed/ • 2-6x Speed
	+R	Ver 1.0/Ver 1.1/Ver 1.2/Ver 1.3	• 2.4x Speed/ • 2.4-4x Speed/ • 2.4-8x Speed/ • 2.4-16x Speed	• 2.4x Speed/ • 2.4-4x Speed • 2.4-8x Speed/ • 2.4-16x Speed	• 2.4x Speed/ • 2.4-4x Speed • 2.4-8x Speed/ • 2.4-16x Speed	• 2.4x Speed/ • 2.4-4x Speed • 2.4-8x Speed/ • 2.4-16x Speed
	+R DL	Ver 1.0/Ver 1.1	• 2.4x Speed/ • 2.4-8x Speed	• 2.4x Speed/ • 2.4-8x Speed	• 2.4x Speed/ • 2.4-8x Speed	• 2.4x Speed/ • 2.4-8x Speed
	+RW	Ver 1.1/Ver 1.2	• 2.4x Speed/ • 2.4-4x Speed	• 2.4x Speed/ • 2.4-4x Speed	• 2.4x Speed/ • 2.4-4x Speed	• 2.4x Speed/ • 2.4-4x Speed
Recording Format	DVD-RAM		DVD Video Recording Format	DVD Video Recording Format	DVD Video Recording Format	DVD Video Recording Format
	DVD-R, DVD-R DL, DVD-RW		DVD-Video Format[8]	DVD-Video Format[8]	DVD-Video Format[8]	DVD-Video Format[8]
Built-in Hard Disk Capacity			250 GB#	160 GB#	160 GB#	-
Recording Time (Approximate)	Hard Disk Drive	XP Mode	55 hours	36 hours	36 hours	-
		SP Mode	111 hours	70 hours	70 hours	-
		LP Mode	222 hours	138 hours	138 hours	-
		EP Mode	333 / 443 hours	212 / 284 hours	212 / 284 hours	-
	4.7GB# Disc	XP Mode	1 hour	1 hour	1 hour	1 hour
		SP Mode	2 hours	2 hours	2 hours	2 hours
		LP Mode	4 hours	4 hours	4 hours	4 hours
		EP Mode	6 / 8 hours	6 / 8 hours	6 / 8 hours	6 / 8 hours
	8.5GB# DVD-R	XP Mode	1 hour 45 minutes	1 hour 45 minutes	1 hour 45 minutes	1 hour 45 minutes
		SP Mode	3 hours 35 minutes	3 hours 35 minutes	3 hours 35 minutes	3 hours 35 minutes
		LP Mode	7 hours 10 minutes	7 hours 10 minutes	7 hours 10 minutes	7 hours 10 minutes
		EP Mode	10 hrs 45 mins / 14 hrs 20 mins (DVD-R DL only)	10 hrs 45 mins / 14 hrs 20 mins (DVD-R DL only)	10 hrs 45 mins/ 14 hrs 20 mins (DVD-R DL only)	10 hrs 45 mins / 14 hrs 20 mins (DVD-R DL only)
Video	Video System		PAL colour signal 625lines, 50 fields NTSC colour signal 525lines, 60 fields	PAL colour signal 625lines, 50 fields NTSC colour signal 525lines, 60 fields	PAL colour signal 625lines, 50 fields NTSC colour signal 525lines, 60 fields	PAL colour signal 625lines, 50 fields NTSC colour signal 525lines, 60 fields
	Recording System		MPEG2 (Hybrid VBR)	MPEG2 (Hybrid VBR)	MPEG2 (Hybrid VBR)	MPEG2 (Hybrid VBR)
	Input	Video-in	AV1 / AV2 (21 pin), AV3 / AV4 (pin jack)	AV1 / AV2 (21 pin), AV3 / AV4 (pin jack)	AV1 / AV2 (21 pin), AV3 / AV4 (pin jack)	AV1 / AV2 (pin jack)
		S Video-in	AV2 (21 pin), AV3 / AV4 (S terminal)	AV2 (21 pin), AV3 / AV4 (S terminal)	AV2 (21 pin), AV3 / AV4 (S terminal)	AV2 (S terminal)
	Output	Video-out	AV1 / AV2 (21 pin), Video Out (pin jack)	AV1 / AV2 (21 pin), Video Out (pin jack)	AV1 / AV2 (21 pin), Video Out (pin jack)	Video Out (pin jack) (DVD Priority)
		S Video-out	AV1 (21 pin), S-Video Out (S terminal)	AV1 (21 pin), S-Video Out (S terminal)	AV1 (21 pin), S-Video Out (S terminal)	S-Video Out (S terminal) (DVD Priority)
		RGB out	AV1 (21 pin) (PAL)	AV1 (21 pin) (PAL)	AV1 (21 pin) (PAL)	-
	Component Video Output (Y, PB, PR)		•	•	•	• (DVD Priority)
Audio	Recording System		Dolby Digital 2ch, Linear PCM (XP mode)	Dolby Digital 2ch, Linear PCM (XP mode)	Dolby Digital 2ch, Linear PCM (XP mode)	Dolby Digital 2ch, Linear PCM (XP mode)
	Input	Audio In	AV1 / AV2 (21 pin), AV3 / AV4 (pin jack)	AV1 / AV2 (21 pin), AV3 / AV4 (pin jack)	AV1 / AV2 (21 pin), AV3 (pin jack)	AV1 / AV2(pin jack)
	Output	Audio Out	AV1 / AV2 (21 pin), Audio Out (pin jack)	AV1 / AV2 (21 pin), Audio Out (pin jack)	AV1 / AV2 (21 pin), Audio Out (pin jack)	Audio Out (pin jack) (DVD Priority)
		Digital Audio Out	Optical terminal (PCM, Dolby Digital, DTS, MPEG)	Optical terminal (PCM, Dolby Digital, DTS)	Optical terminal (PCM, Dolby Digital, DTS)	Optical terminal (PCM, Dolby Digital, DTS, MPEG) (DVD Priority)
Tuner	Tuner System		PAL-B (Australia), DVB-T (Australia)	PAL-B (Australia), DVB-T (Australia)	PAL-B (Australia)	PAL-B (Australia), DVB-T (Australia)
	Channel Coverage		(PAL-B) VHF: 0-12ch, UHF: 28-69ch, CATV: 45MHz-470MHz (DVB-T) VHF: 6-12ch, UHF: 27-69ch	(PAL-B) VHF: 0-12ch, UHF: 28-69ch, CATV: 45MHz-470MHz (DVB-T) VHF: 6-12ch, UHF: 27-69ch	(Australia) VHF: 0-12ch, UHF: 28-69ch, CATV: 45MHz-470MHz	(PAL-B) VHF: 0-12ch, UHF: 28-69ch, CATV: 45MHz-470MHz (DVB-T) VHF: 6-12ch, UHF: 27-69ch
	DV Input		•	•	•	•
	HDMI Output		•	•	•	•
	VIERA Link		• (HDAVI Control2)	• (HDAVI Control2)	• (HDAVI Control2)	• (HDAVI Control2)
VHS	Playable Format		-	-	–	Hi-Fi, SQPB
	Operations		–	–	–	Repeat Play
	Rec. System	Rec. Mode	–	–	–	SP/LP/EP
		Copying Way	–	–	–	One-touch 2-way Copying
SD Card Slot	SD Memory Card Slot		•	•	–	–
	Compatible Media		SD Memory Card*, SDHC Memory Card[7], MultiMediaCard * includes miniSDTM Cards (A miniSDTM Adaptor needs to be inserted)	SD Memory Card*, SDHC Memory Card[7], MultiMediaCard * includes miniSDTM Cards (A miniSDTM Adaptor needs to be inserted)	–	–
	Format		FAT12, FAT16 (SD Memory Card*/ MultiMediaCard) FAT32 (SDHC Memory Card[7])	FAT12, FAT16 (SD Memory Card*/ MultiMediaCard) FAT32 (SDHC Memory Card[7])	–	–
	Still Picture (JPEG)	Format	JPEG conforming DCF (Design rule for Camera File system) Sub sampling; 4:2:2 or 4:2:0	JPEG conforming DCF (Design rule for Camera File system) Sub sampling; 4:2:2 or 4:2:0	–	–
		Compatible Pixels	between 34 X 34 and 6,144 X 4,096 pixels	between 34 X 34 and 6,144 X 4,096 pixels	–	–
	SD Video (MPEG2)	Codec	MPEG2 (SD-Video Entertainment Video Profile)	MPEG2 (SD-Video Entertainment Video Profile)	–	–
		File Format	SD-Video format conforming Video Recording conversion and transfer is possible from card to HDD or DVD-RAM disc. After Video Recording conversion and transfer to HDD or DVD-RAM disc the playback is possible.	SD-Video format conforming Video Recording conversion and transfer is possible from card to HDD or DVD-RAM disc. After Video Recording conversion and transfer to HDD or DVD-RAM disc the playback is possible.	–	–
Power Supply			AC220 - 240V, 50Hz	AC220 - 240V, 50Hz	AC220 - 240V, 50Hz	AC220 - 240V, 50Hz
Power Consumption (approximate)		Normal Use/Standby Mode	Approx. 36 W/ Approx. 2 W	Approx. 35 W/ Approx. 2 W	Approx. 32 W/ Approx. 2 W	Approx. 32 W/ Approx. 4.3 W
Dimensions (w x d x h)			430 x 59 x 329	430 x 59 x 329	430 x 59 x 330	430 x 84 x 345
Weight (approximate)			4.2 kg	4.2 kg	4.2 kg	5.4 kg
Operating Temperature			5 - 40 °C	5 - 40 °C	5 - 40 °C	5 - 40 °C
Operating Humidity Range			10-80 %RH (no condensation)	10-80 %RH (no condensation)	10-80 %RH (no condensation)	10-80 %RH (no condensation)

1 Discs recorded and finalised on recording devices. 2 For content recorded on CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs. 3 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license. About DivX DivX is a popular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size.4 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording. 5 In EP mode, you can select either 6 hours or 8 hours of recording. The sound quality in 6-hour EP mode is higher quality than in 8-hour EP mode.6 DMR-EX87/EX77 are compatible with SD Memory Card / miniSD™ Cards (A miniSD™ adaptor needs to be inserted). These units are compatible with DCF based, still picture (JPEG) files recorded using a digital camera. These units are not compatible with sound, moving pictures or still pictures not in accordance with DCF standards (i.e. MOTION JPEG etc), or with types of still pictures other than JPEG. When saving still pictures on Hard Disk Drive, it is recommended that you copy them to the SD Memory Card or DVD-RAM also. 7 Class is not supported. 8 It is compatible to a DVD-Video format after finalised.
1GB = one billion bytes. Useable capacity will be less.

Specifications are subject to change without notice. Weight and dimensions are approximate.

SPECIFICATIONS

COMPONENT HOME THEATRE: SPEAKER SYSTEM

Model Number		SB-TP1000			
		Front		Surround	Subwoofer
		Front Section	Centre Section		
Number of Speakers		2		2	1
Configuration		3-way, 4-speaker Bass-reflex	3-way, 3-speaker Bass-reflex	2-way, 3-speaker Bass-reflex	2-speaker Bass-reflex
Woofer		8cm cone type x 2	8cm cone type	8cm cone type x 2	17cm cone type x 2
Midrange		-	6.5cm cone type	-	-
Tweeter		2.5cm dome type	2.5cm dome type	2.5cm dome type	-
Super Tweeter		1.2cm dome type	-	-	-
Impedance		6Ω	12Ω	6Ω	-
Input Power (IEC)	MAX	200W	100W	200W	-
	RATED	100W	50W	100W	-
Sound Pressure Level		82.5dB/W [1.0m]	80dB/W [1.0m]	82.5dB/W [1.0m]	83dB/W [1.0m]
Frequency Range		65 Hz - 100 kHz [-16dB]	65 Hz - 50 kHz [-16dB]	65 Hz - 50 kHz [-16dB]	28 Hz - 300 Hz [-16dB]
Built-in Amp		-	-	-	•[100W x 2/ 0.9%THD]
Large Speaker Terminal		• (Bi-Wire)	•	•	-
Weight (kg)	With the Stand	12.6		9.3	22
	Wall mounted	5.4		3.7	22
Dimensions	With the Stand	279mm x 1298mm x 279mm		279mm x 1298mm x 279mm	254mm x 496mm x 500mm
	Wall mounted	175mm x 802mm x 102mm		125mm x 802mm x 87mm	254mm x 496mm x 500mm

Design and specifications subject to change without notice.

COMPONENT HOME THEATRE: SPEAKER SYSTEM

Model Number		SB-TP100		
		Front & Surround	Centre	Subwoofer
Number of Speakers		4	1	1
Configuration		3-way, 4-speaker Bass-reflex	3-way, 3-speaker Bass-reflex	Bass-reflex
Woofer		8cm x 2	5cm x 2	17cm x 1
Tweeter		2.5cm semi dome type	2.5cm semi dome type	-
Super Sonic Tweeter		1.2cm dome type	-	-
Input Power (IEC)	MAX	200W	200W	-
	RATED	100W	100W	-
Sound Pressure Level		82.5dB/W [1.0m]	82.5dB/W [1.0m]	81dB/W [1.0m]
Frequency Range		80 Hz - 100 kHz [-16dB]	90 Hz - 50 kHz [-16dB]	32 Hz - 300 Hz [-16dB]
Built-in Amp		-	-	•[100W x 2/ 0.9%THD]
Large Speaker Terminal		•	-	-
Magnet Shielding		•	•	-
Weight (kg)	With the Stand	8.2	1.8	11.3
	Wall mounted	4.2		
Dimensions	With the Stand	296mm (min) 1183 (max) x1428 x 265	432 x 66 x 105	162 x 457 x 420
	Wall mounted	126 x 1148 x 67 (with 5mm wall spacer)		

Design and specifications subject to change without notice.

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